08F2F 6628260

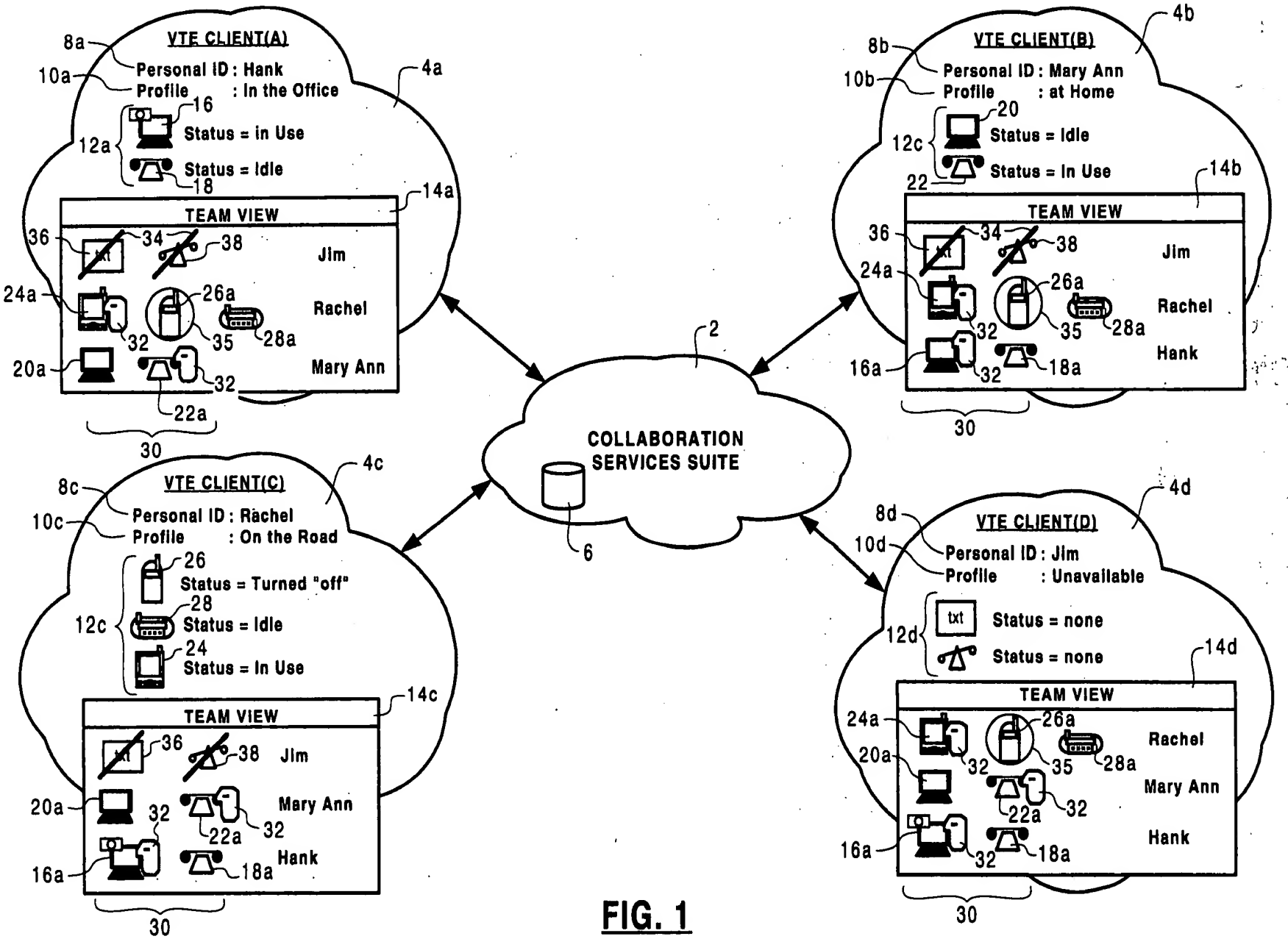
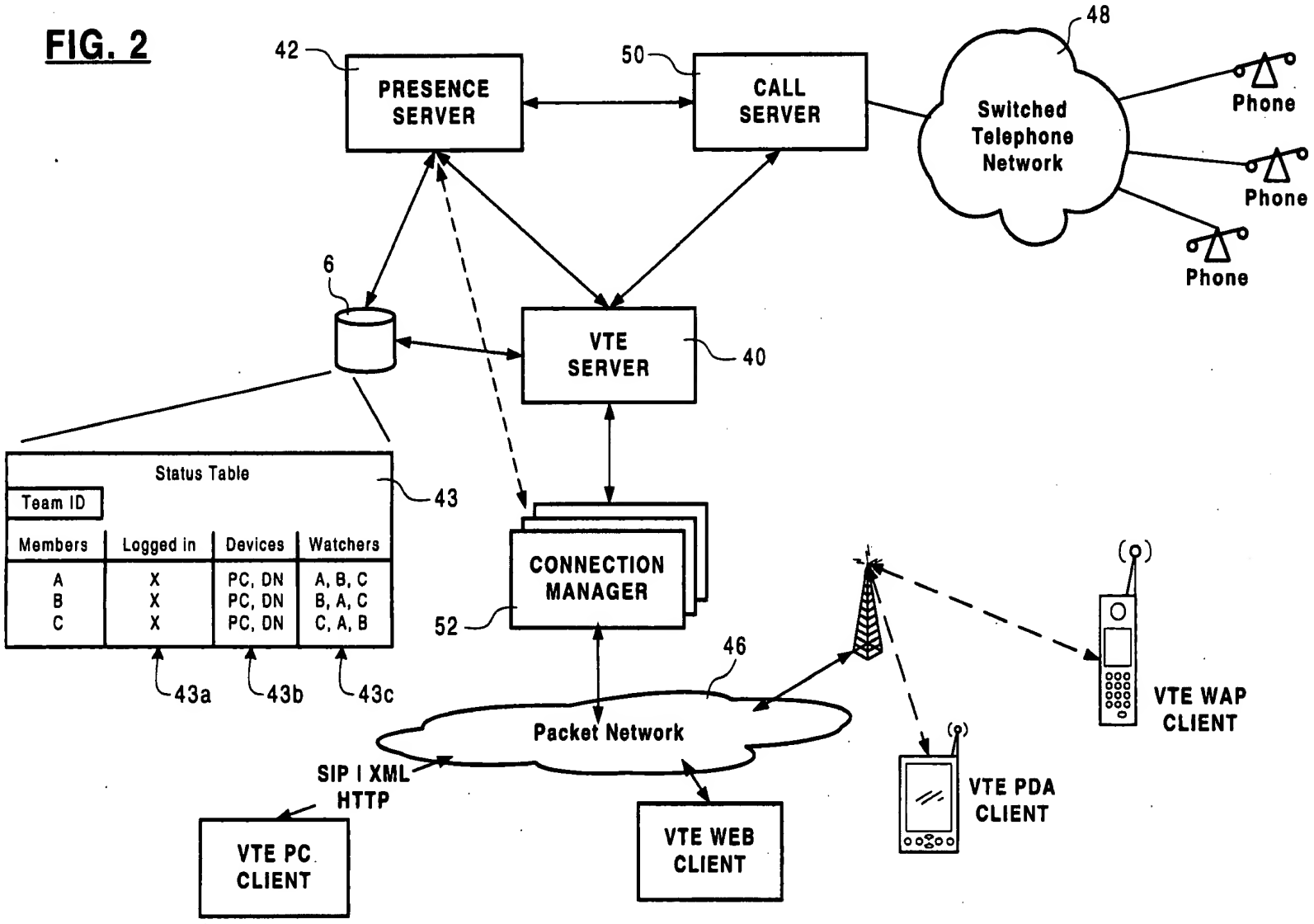


FIG. 1

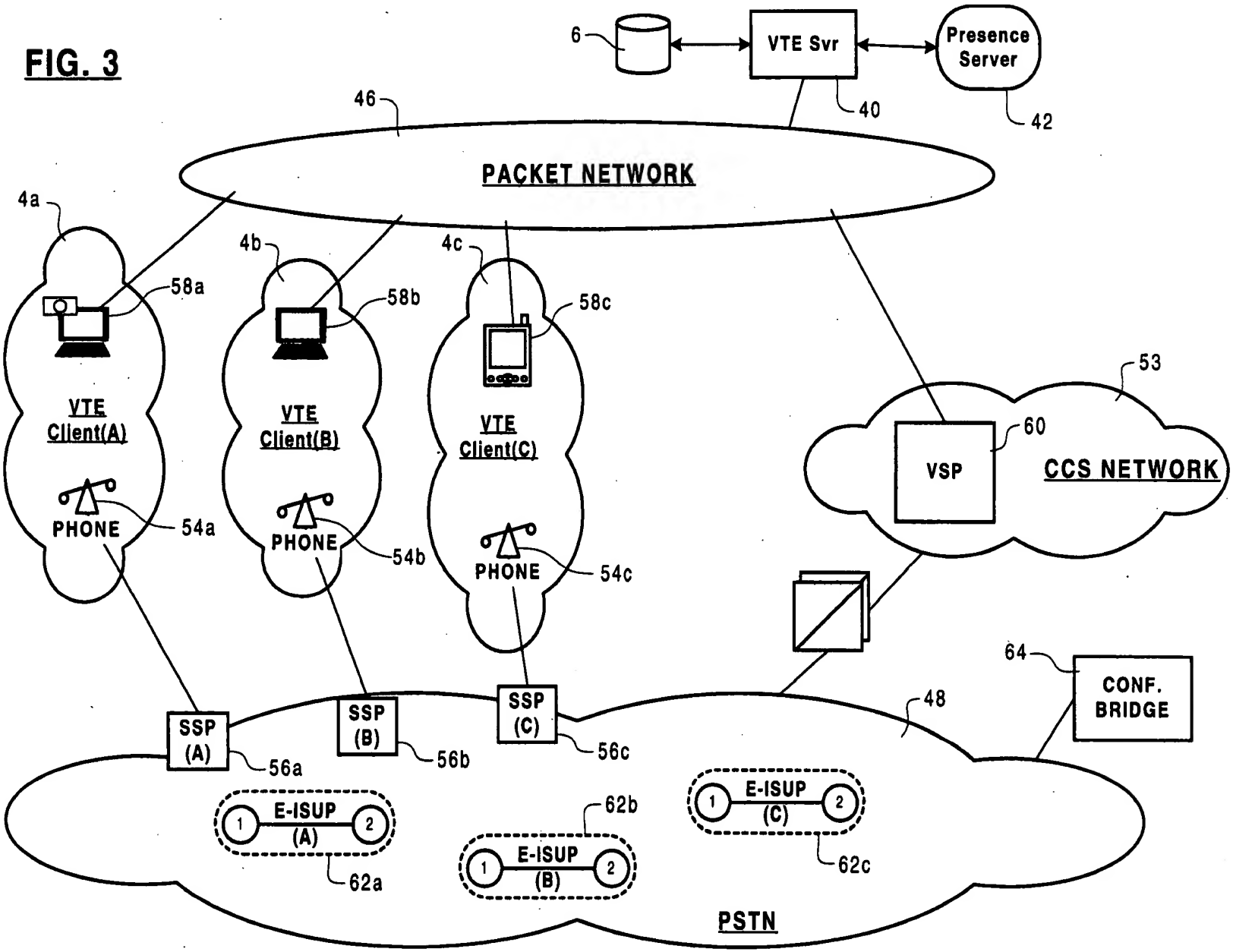
08727 E628260

FIG. 2



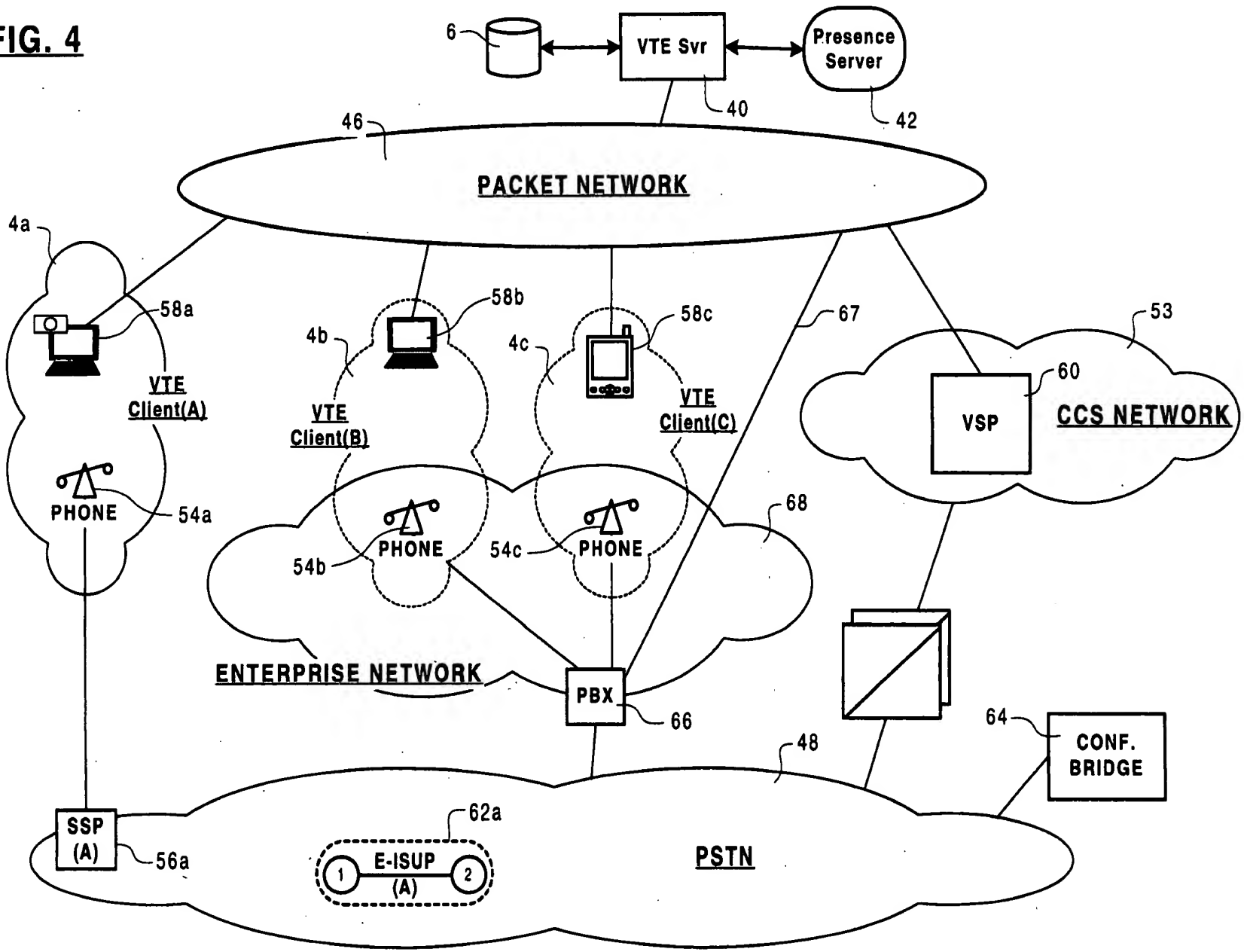
00827 E828260

FIG. 3



008727 "6282260

FIG. 4



00827 "6282760

FIG. 5

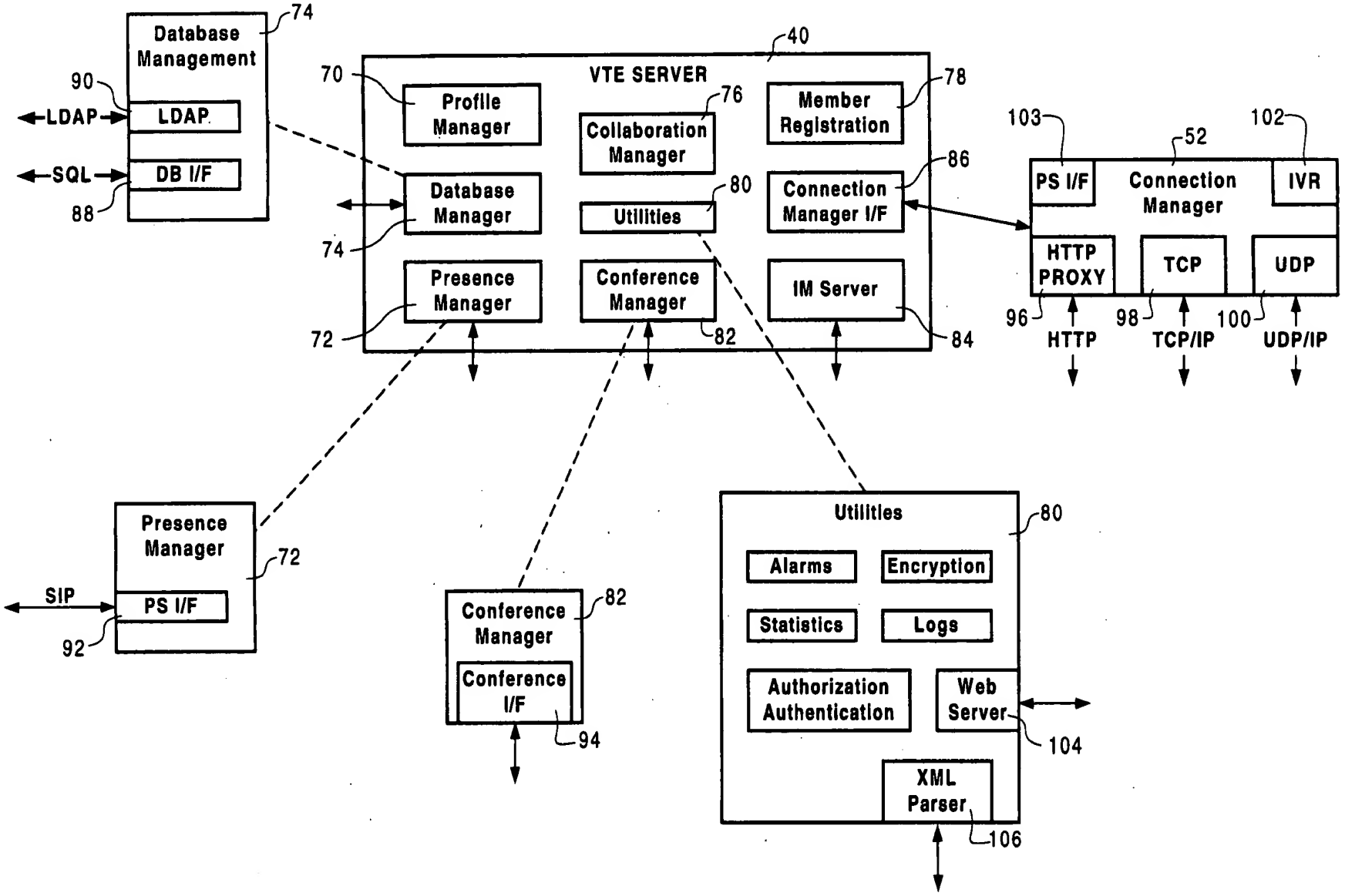


FIG. 6

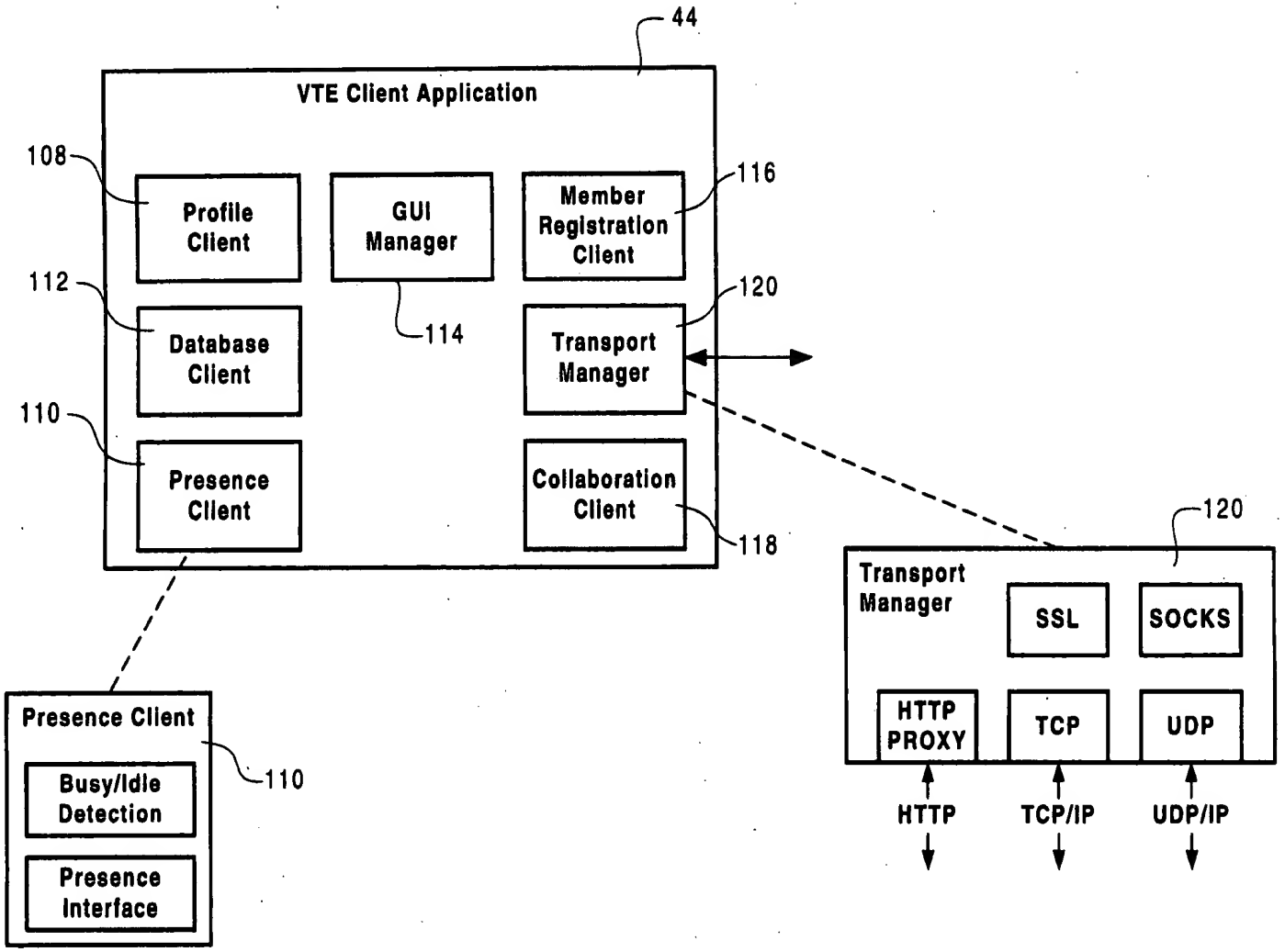

44
VTE Client Application
108
Profile Client
GUI Manager
Member Registration Client
116
112
Database Client
114
120
Transport Manager
110
Presence Client
Collaboration Client
118
120
Transport Manager
SSL
SOCKS
HTTP PROXY
TCP
UDP
HTTP
TCP/IP
UDP/IP
Presence Client
110
Busy/Idle Detection
Presence Interface

FIG. 7

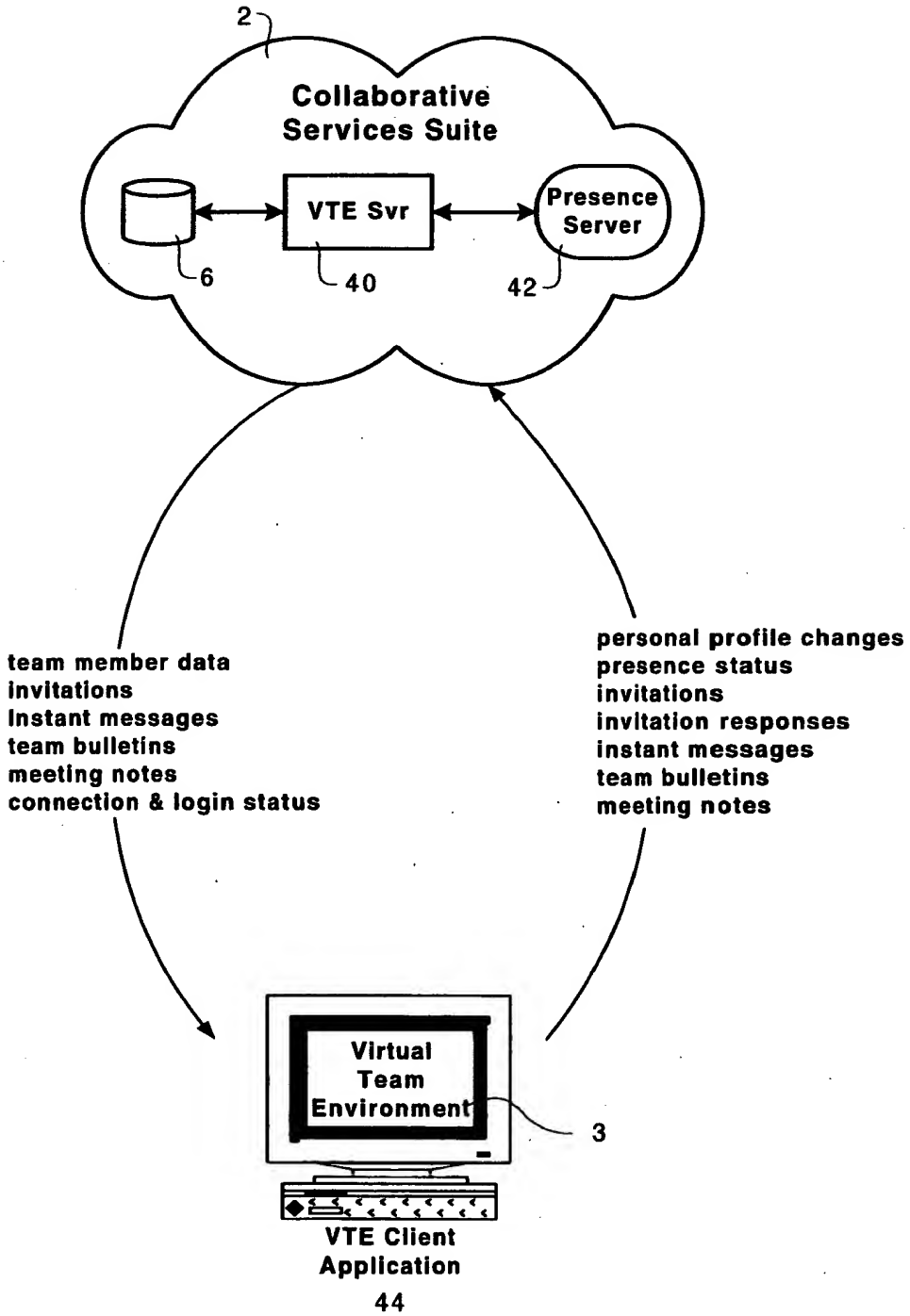

2
Collaborative Services Suite
VTE Svr
Presence Server
6
40
42
team member data
invitations
Instant messages
team bulletins
meeting notes
connection & login status
personal profile changes
presence status
invitations
invitation responses
instant messages
team bulletins
meeting notes
Virtual Team Environment
3
VTE Client Application
44

FIG. 8

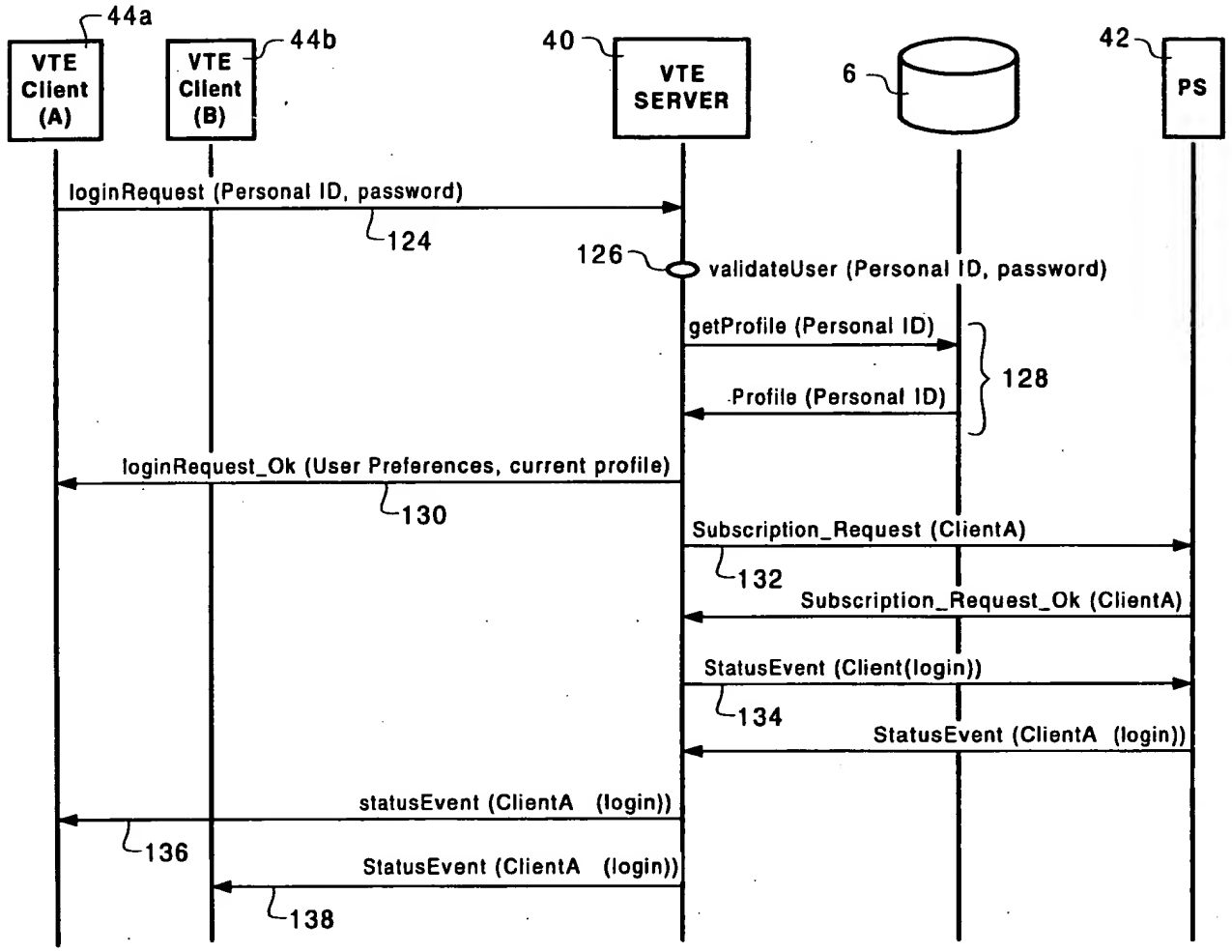

44a
VTE Client (A)
44b
VTE Client (B)
40
VTE SERVER
6
42
PS
loginRequest (Personal ID, password)
124
126
validateUser (Personal ID, password)
getProfile (Personal ID)
128
Profile (Personal ID)
loginRequest_Ok (User Preferences, current profile)
130
Subscription_Request (ClientA)
132
Subscription_Request_Ok (ClientA)
StatusEvent (Client(login))
134
StatusEvent (ClientA (login))
statusEvent (ClientA (login))
136
StatusEvent (ClientA (login))
138

FIG. 9

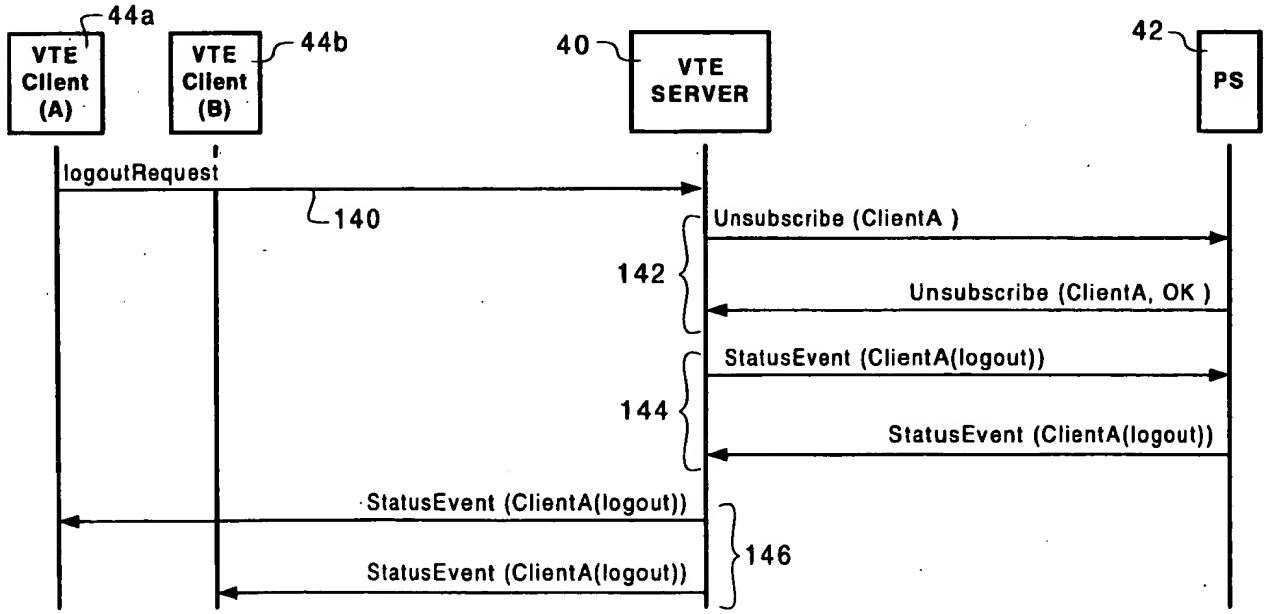

44a
VTE Client (A)
44b
VTE Client (B)
40
VTE SERVER
42
PS
logoutRequest
140
Unsubscribe (ClientA)
142
Unsubscribe (ClientA, OK)
StatusEvent (ClientA(logout))
144
StatusEvent (ClientA(logout))
StatusEvent (ClientA(logout))
146
StatusEvent (ClientA(logout))

FIG. 10

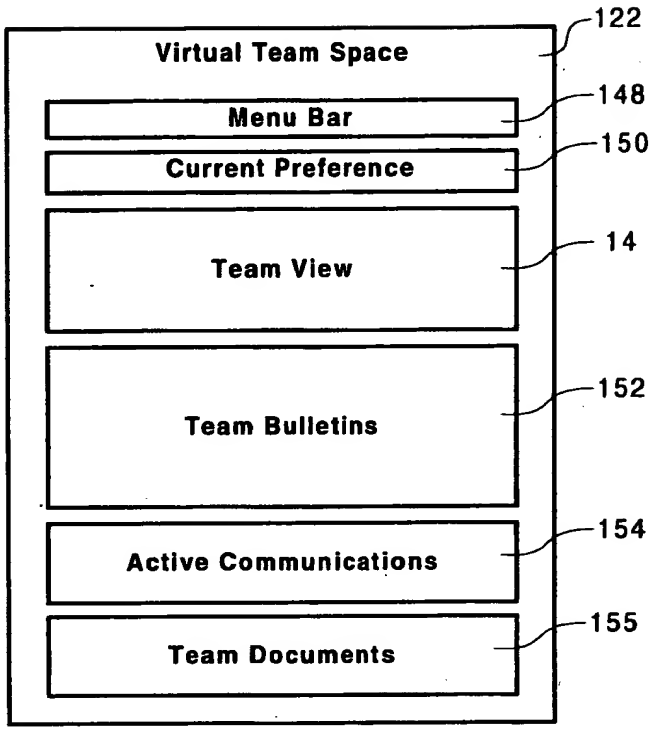

Virtual Team Space
122
Menu Bar
148
Current Preference
150
Team View
14
Team Bulletins
152
Active Communications
154
Team Documents
155

FIG. 11

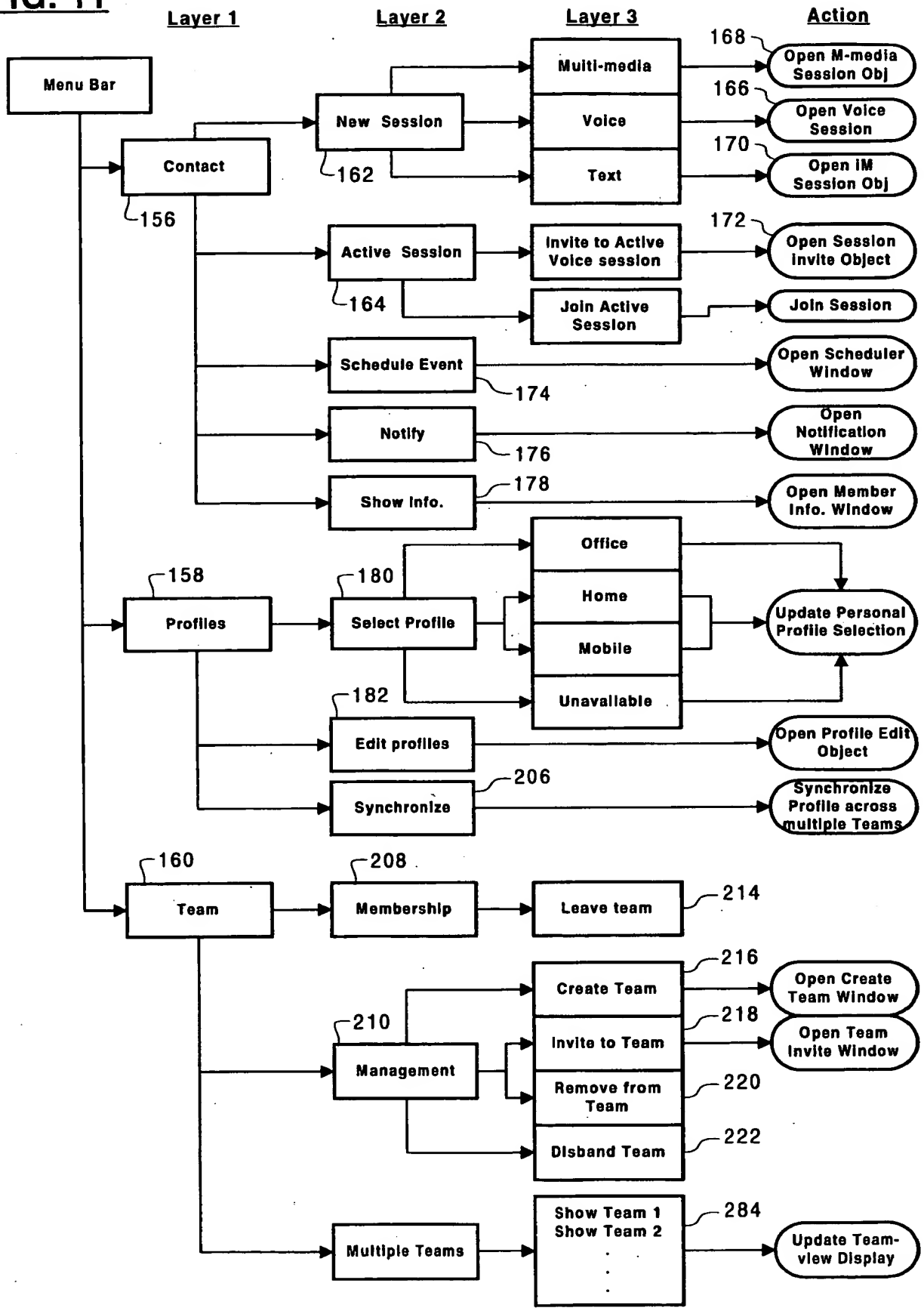

Layer 1
Layer 2
Layer 3
Action
Menu Bar
Contact
156
New Session
162
Active Session
164
Profiles
158
Team
160
Multi-media
Voice
Text
168
Open M-media Session Obj
166
Open Voice Session
170
Open IM Session Obj
Invite to Active Voice session
172
Open Session Invite Object
Join Active Session
Join Session
Schedule Event
174
Open Scheduler Window
Notify
176
Open Notification Window
Show Info.
178
Open Member Info. Window
180
Select Profile
Office
Home
Mobile
Unavailable
Update Personal Profile Selection
182
Edit profiles
Open Profile Edit Object
Synchronize
206
Synchronize Profile across multiple Teams
208
Membership
Leave team
214
Management
210
Create Team
216
Open Create Team Window
Invite to Team
218
Open Team Invite Window
Remove from Team
220
Disband Team
222
Multiple Teams
Show Team 1
Show Team 2
284
Update Team-view Display

FIG. 12

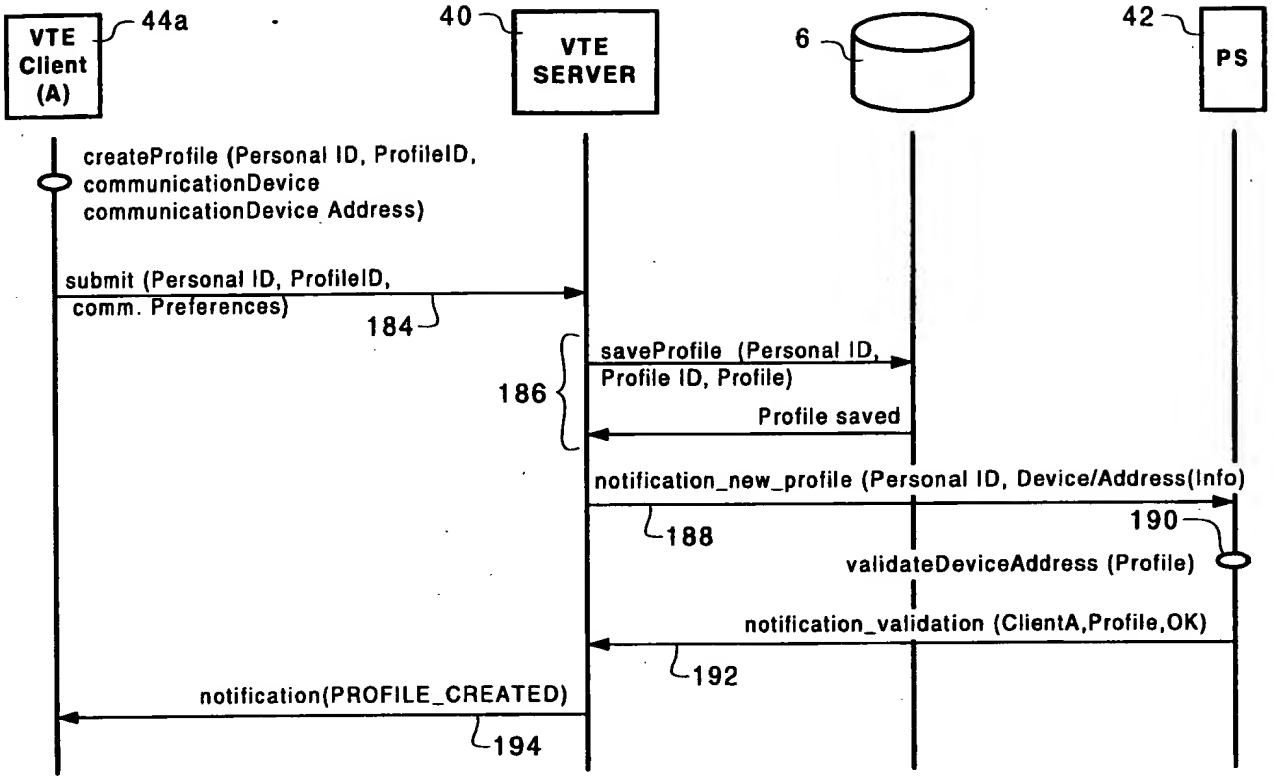

VTE Client (A)
44a
40
VTE SERVER
6
42
PS
createProfile (Personal ID, ProfileID, communicationDevice communicationDevice Address)
submit (Personal ID, ProfileID, comm. Preferences)
184
saveProfile (Personal ID, Profile ID, Profile)
186
Profile saved
notification_new_profile (Personal ID, Device/Address(Info)
188
190
validateDeviceAddress (Profile)
notification_validation (ClientA,Profile,OK)
192
notification(PROFILE_CREATED)
194

FIG. 13

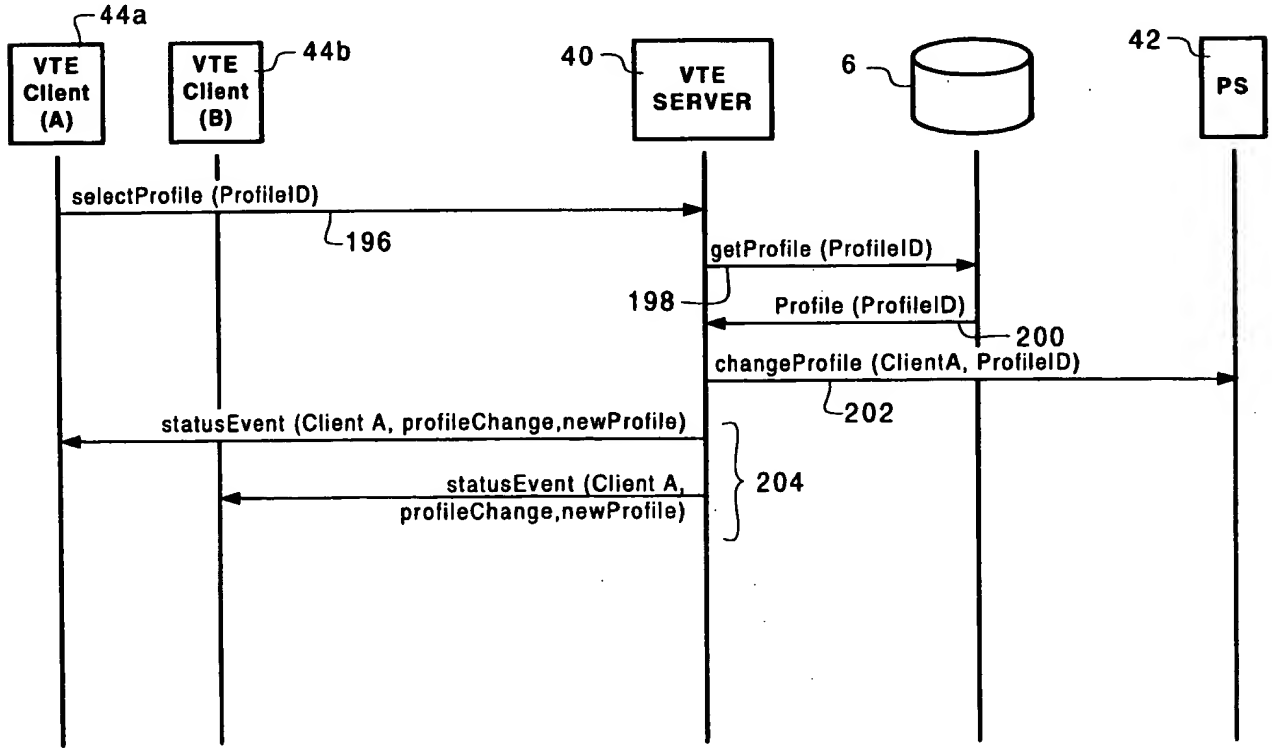

44a
VTE Client (A)
VTE Client (B)
44b
40
VTE SERVER
6
42
PS
selectProfile (ProfileID)
196
getProfile (ProfileID)
198
Profile (ProfileID)
200
changeProfile (ClientA, ProfileID)
202
statusEvent (Client A, profileChange,newProfile)
statusEvent (Client A, profileChange,newProfile)
204

FIG. 14

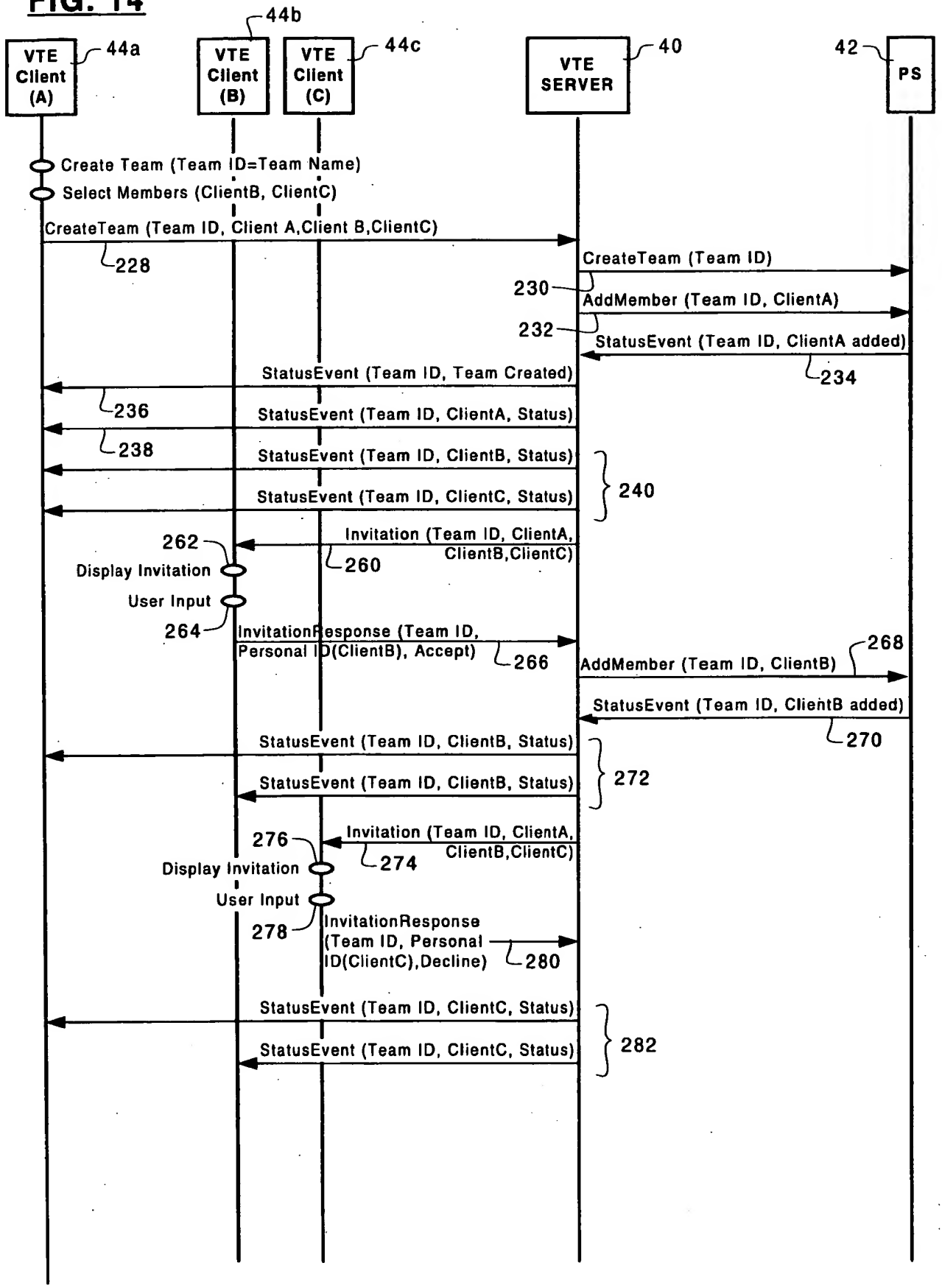

VTE Client (A)
44a
VTE Client (B)
44b
VTE Client (C)
44c
VTE SERVER
40
PS
42
Create Team (Team ID=Team Name)
Select Members (ClientB, ClientC)
CreateTeam (Team ID, Client A,Client B,ClientC)
228
CreateTeam (Team ID)
230
AddMember (Team ID, ClientA)
232
StatusEvent (Team ID, ClientA added)
234
StatusEvent (Team ID, Team Created)
236
StatusEvent (Team ID, ClientA, Status)
238
StatusEvent (Team ID, ClientB, Status)
StatusEvent (Team ID, ClientC, Status)
240
262
Invitation (Team ID, ClientA, ClientB,ClientC)
260
Display Invitation
User Input
264
InvitationResponse (Team ID, Personal ID(ClientB), Accept)
266
268
AddMember (Team ID, ClientB)
StatusEvent (Team ID, ClientB added)
270
StatusEvent (Team ID, ClientB, Status)
StatusEvent (Team ID, ClientB, Status)
272
276
Invitation (Team ID, ClientA, ClientB,ClientC)
274
Display Invitation
User Input
278
InvitationResponse (Team ID, Personal ID(ClientC),Decline)
280
StatusEvent (Team ID, ClientC, Status)
StatusEvent (Team ID, ClientC, Status)
282

FIG. 15

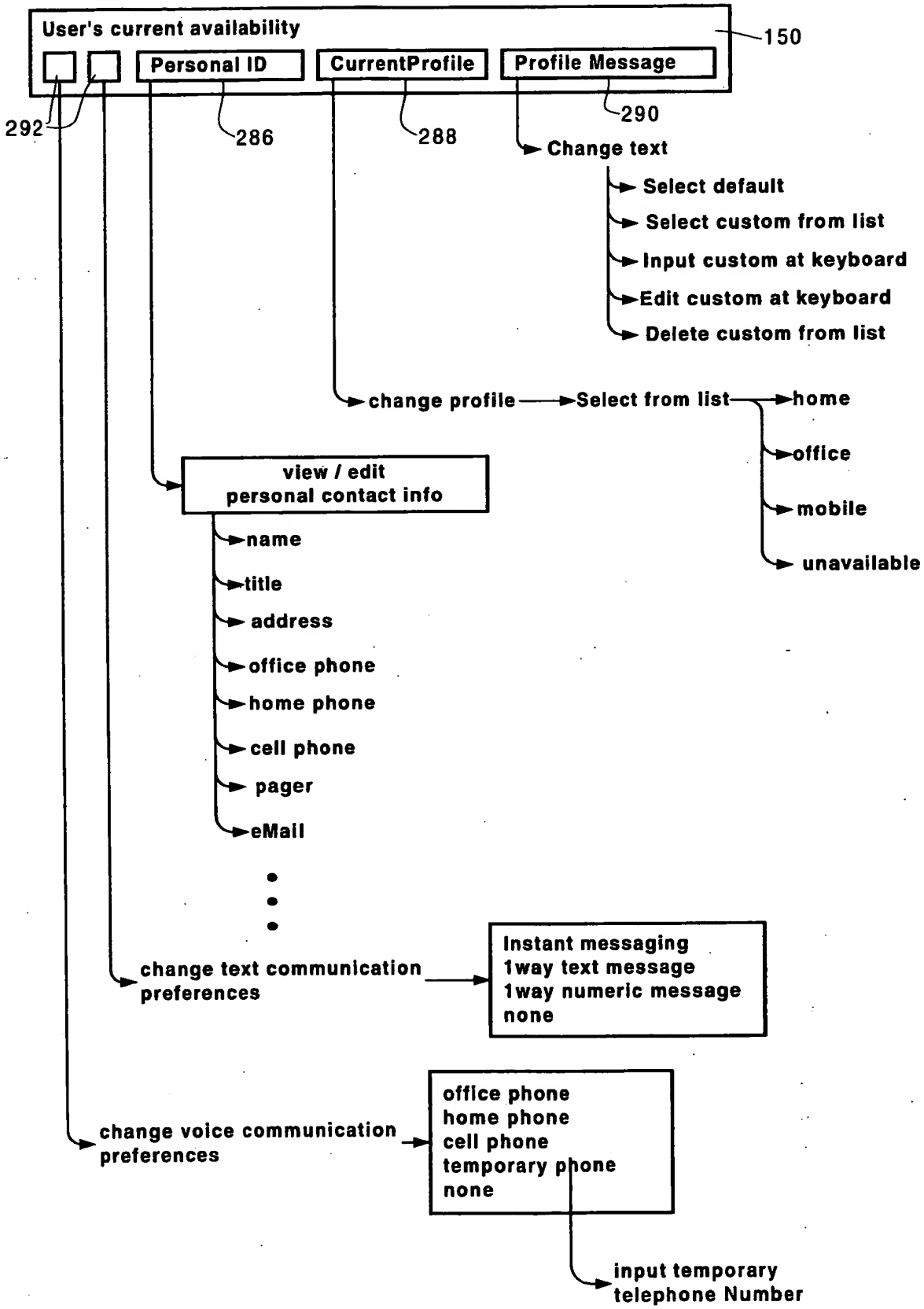

User's current availability
150
Personal ID
CurrentProfile
Profile Message
292
286
288
290
Change text
Select default
Select custom from list
Input custom at keyboard
Edit custom at keyboard
Delete custom from list
change profile
Select from list
home
office
mobile
unavailable
view / edit
personal contact info
name
title
address
office phone
home phone
cell phone
pager
eMail
change text communication
preferences
Instant messaging
1way text message
1way numeric message
none
change voice communication
preferences
office phone
home phone
cell phone
temporary phone
none
input temporary
telephone Number

FIG. 16

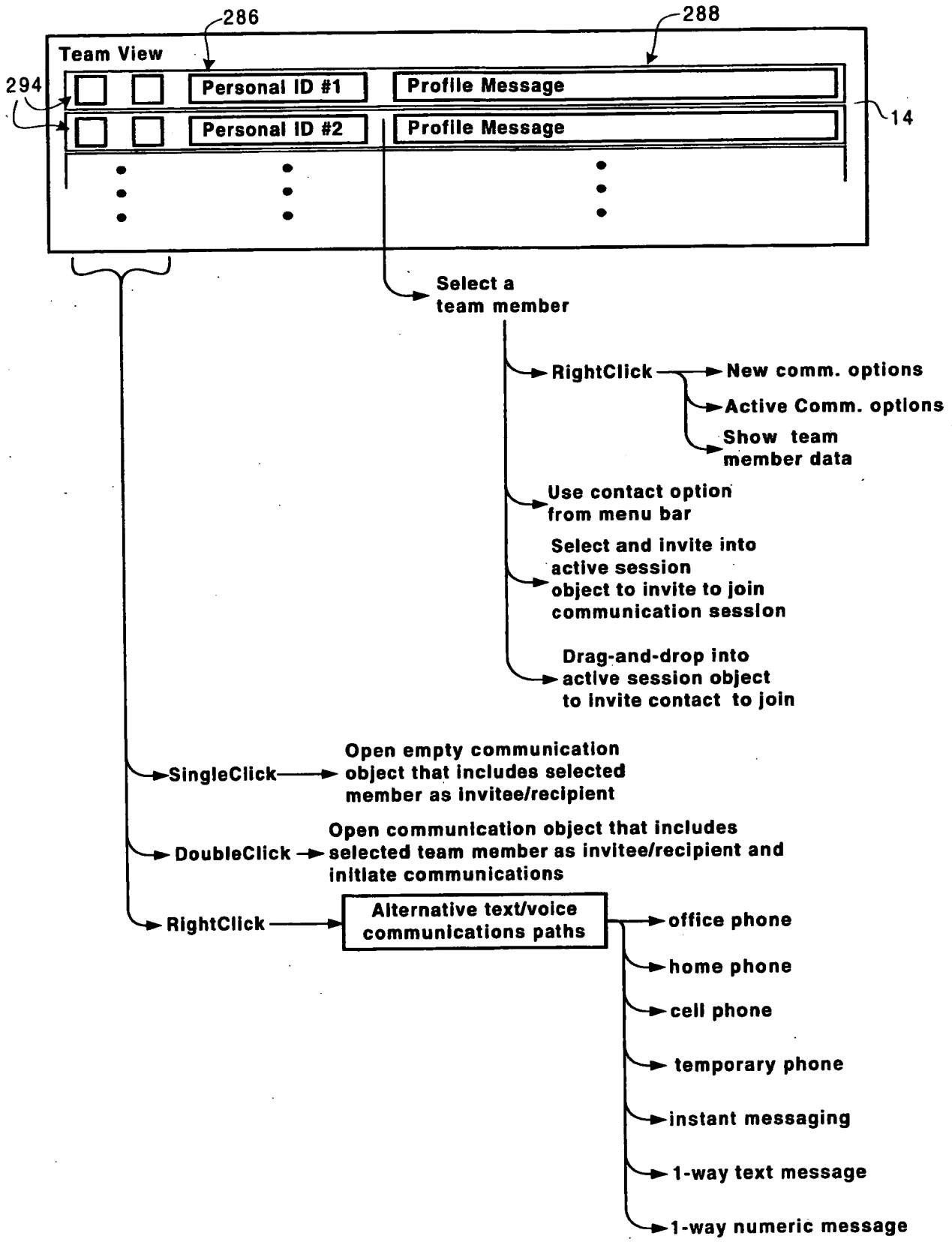

286
288
Team View
294
Personal ID #1
Profile Message
Personal ID #2
Profile Message
14
Select a team member
RightClick
New comm. options
Active Comm. options
Show team member data
Use contact option from menu bar
Select and invite into active session object to invite to join communication session
Drag-and-drop into active session object to invite contact to join
SingleClick
Open empty communication object that includes selected member as invitee/recipient
DoubleClick
Open communication object that includes selected team member as invitee/recipient and initiate communications
RightClick
Alternative text/voice communications paths
office phone
home phone
cell phone
temporary phone
instant messaging
1-way text message
1-way numeric message

FIG. 17

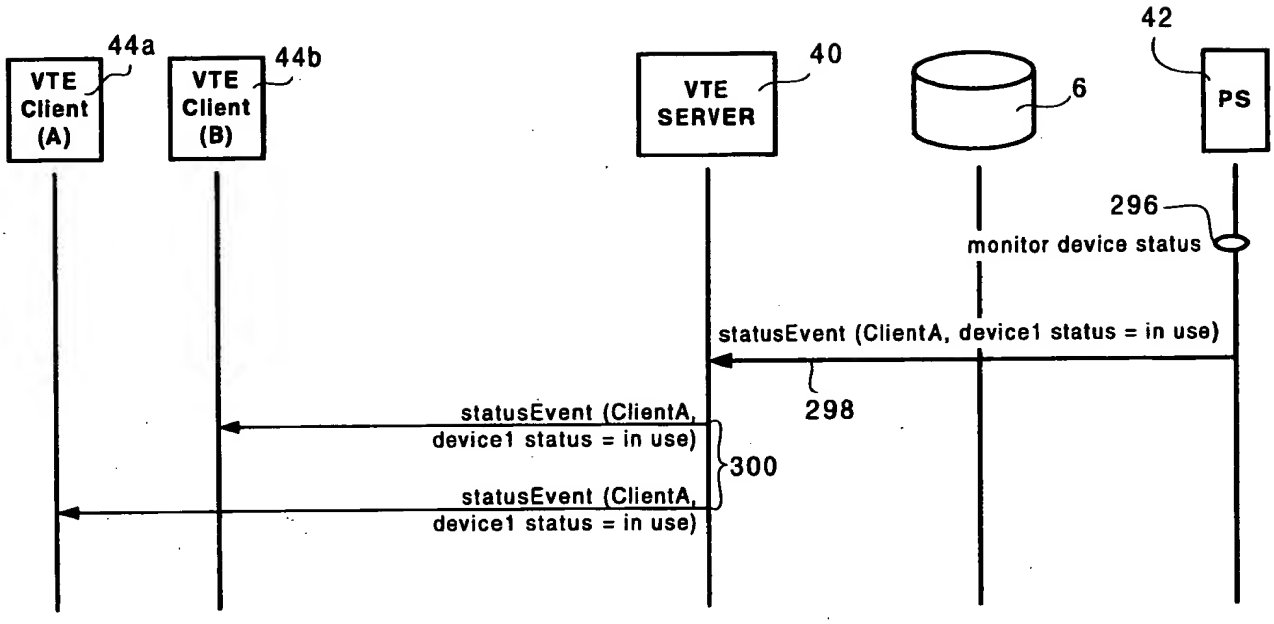

44a
VTE Client (A)
44b
VTE Client (B)
40
VTE SERVER
6
42
PS
296
monitor device status
statusEvent (ClientA, device1 status = in use)
298
statusEvent (ClientA, device1 status = in use)
300
statusEvent (ClientA, device1 status = in use)

FIG. 18

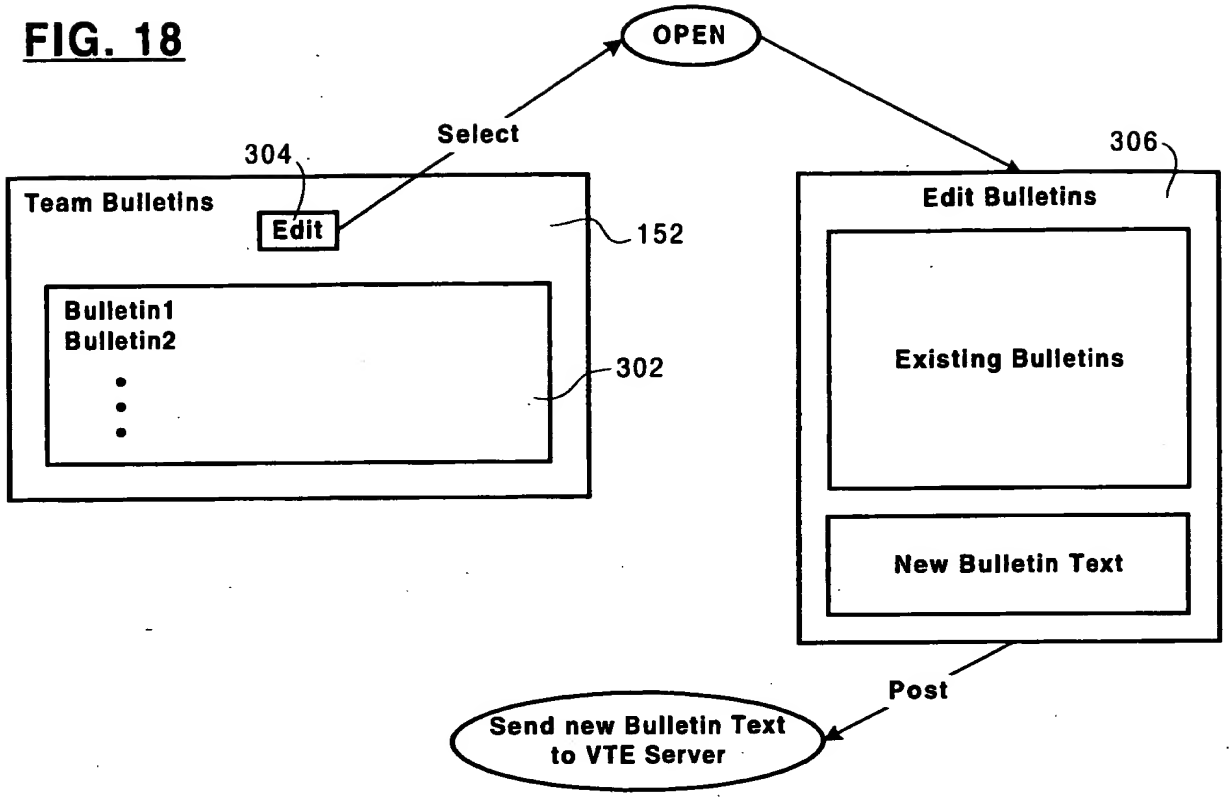

OPEN
Select
304
306
Team Bulletins
Edit
152
Edit Bulletins
Bulletin1
Bulletin2
302
Existing Bulletins
New Bulletin Text
Post
Send new Bulletin Text
to VTE Server

FIG. 19

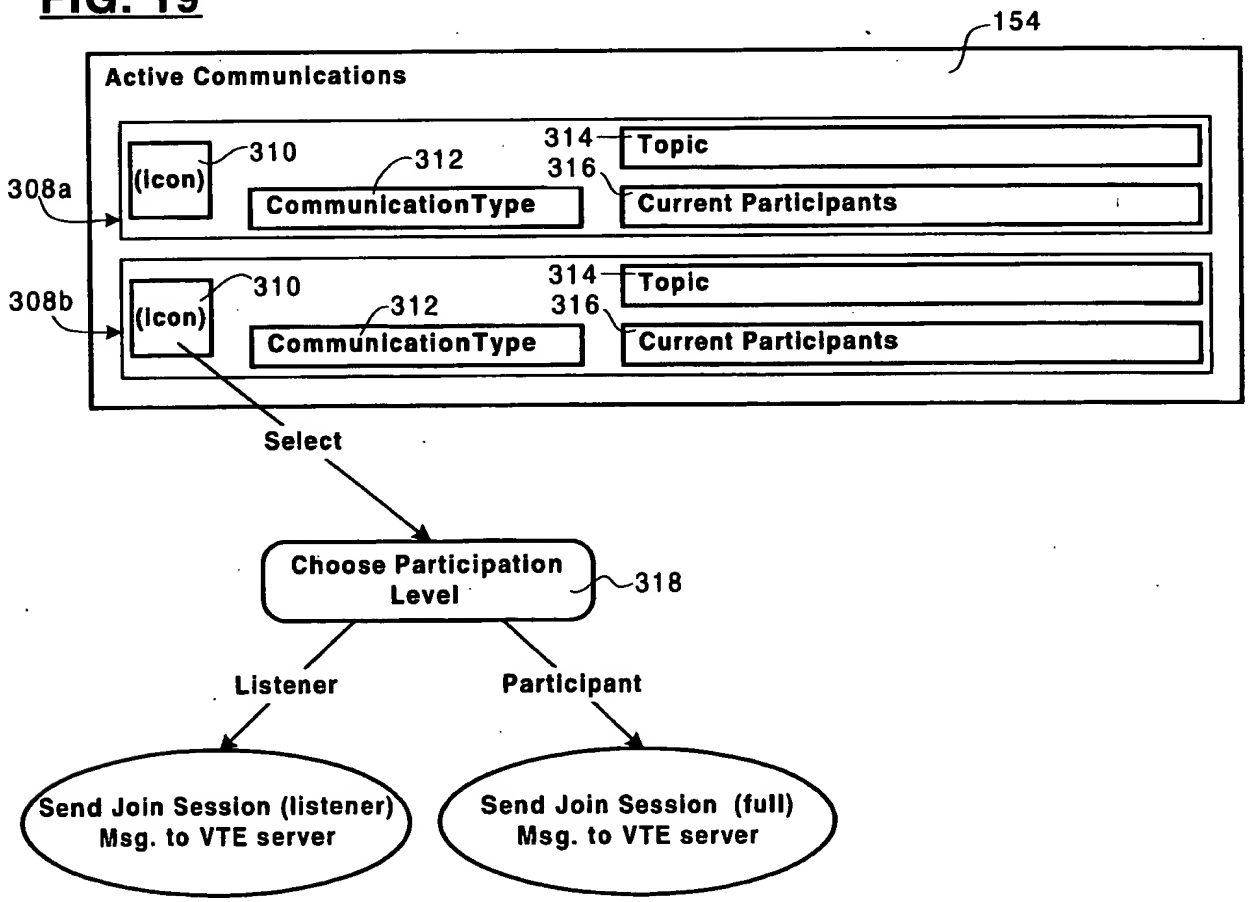
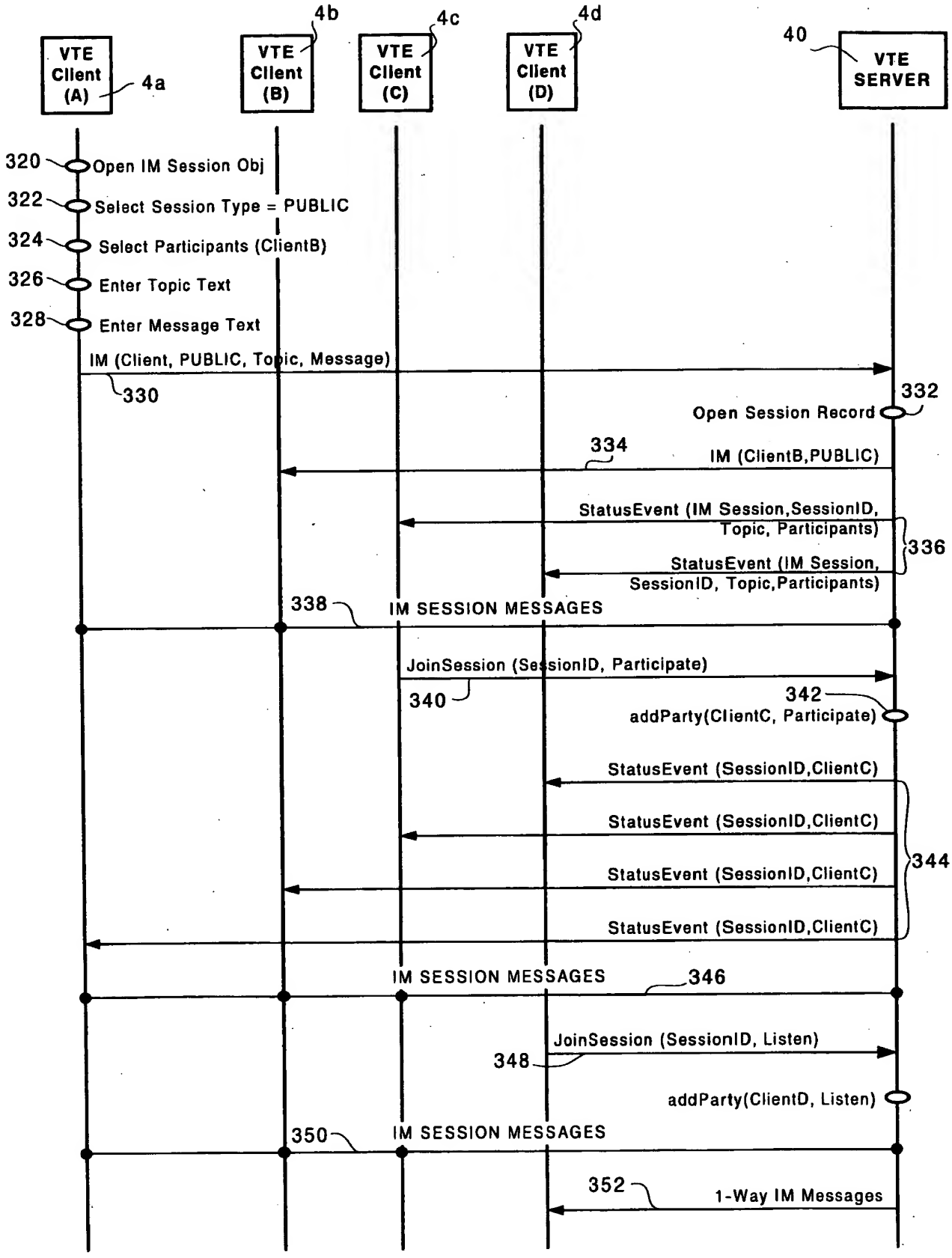

154
Active Communications
308a
(Icon)
310
312
CommunicationType
314
Topic
316
Current Participants
308b
(Icon)
310
312
CommunicationType
314
Topic
316
Current Participants
Select
Choose Participation
Level
318
Listener
Participant
Send Join Session (listener)
Msg. to VTE server
Send Join Session (full)
Msg. to VTE server

FIG. 20


VTE Client (A)
4a
VTE Client (B)
4b
VTE Client (C)
4c
VTE Client (D)
4d
40
VTE SERVER
320
Open IM Session Obj
322
Select Session Type = PUBLIC
324
Select Participants (ClientB)
326
Enter Topic Text
328
Enter Message Text
IM (Client, PUBLIC, Topic, Message)
330
332
Open Session Record
334
IM (ClientB,PUBLIC)
StatusEvent (IM Session,SessionID, Topic, Participants)
336
StatusEvent (IM Session, SessionID, Topic,Participants)
338
IM SESSION MESSAGES
JoinSession (SessionID, Participate)
340
342
addParty(ClientC, Participate)
StatusEvent (SessionID,ClientC)
StatusEvent (SessionID,ClientC)
StatusEvent (SessionID,ClientC)
StatusEvent (SessionID,ClientC)
344
IM SESSION MESSAGES
346
JoinSession (SessionID, Listen)
348
addParty(ClientD, Listen)
350
IM SESSION MESSAGES
352
1-Way IM Messages

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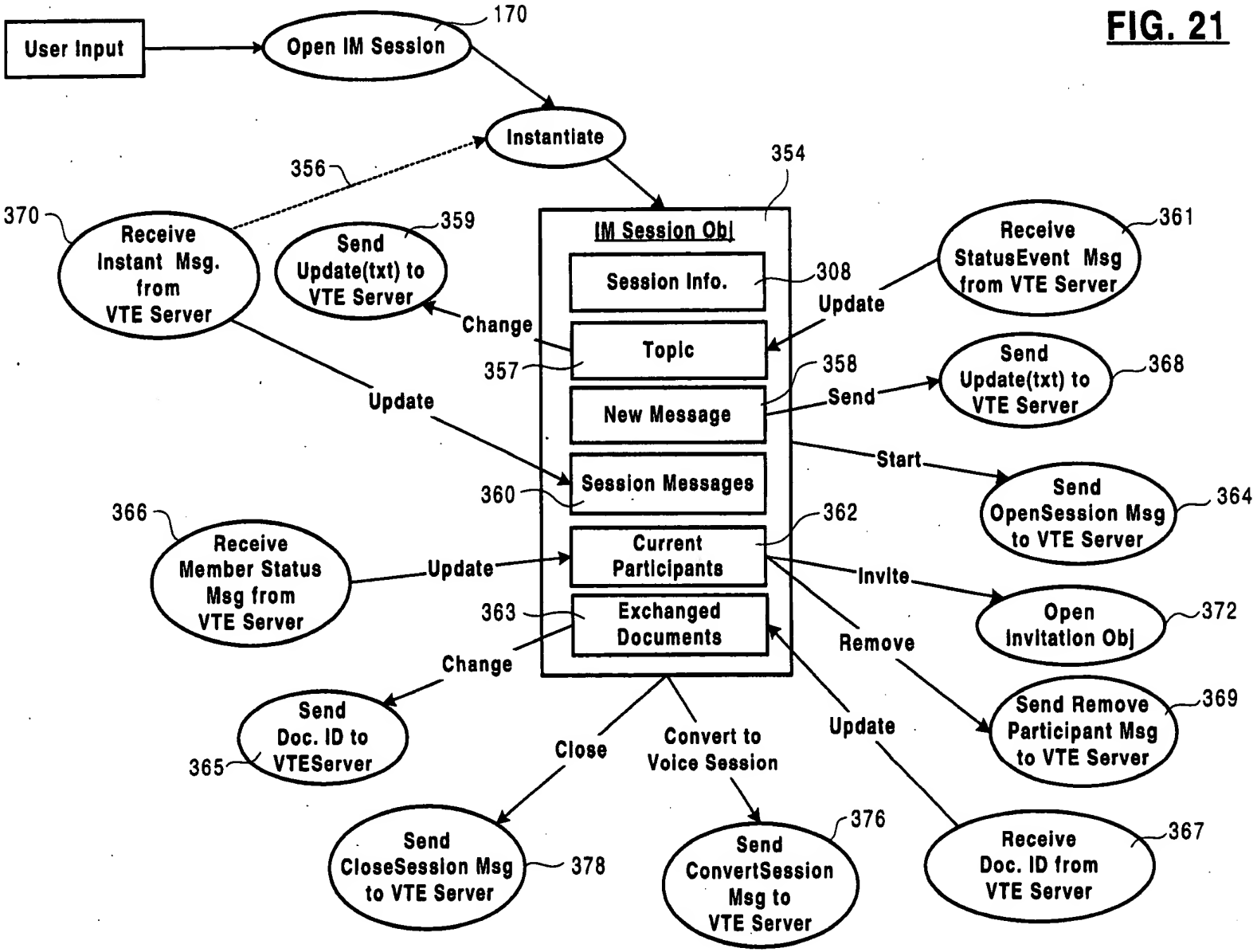

FIG. 21

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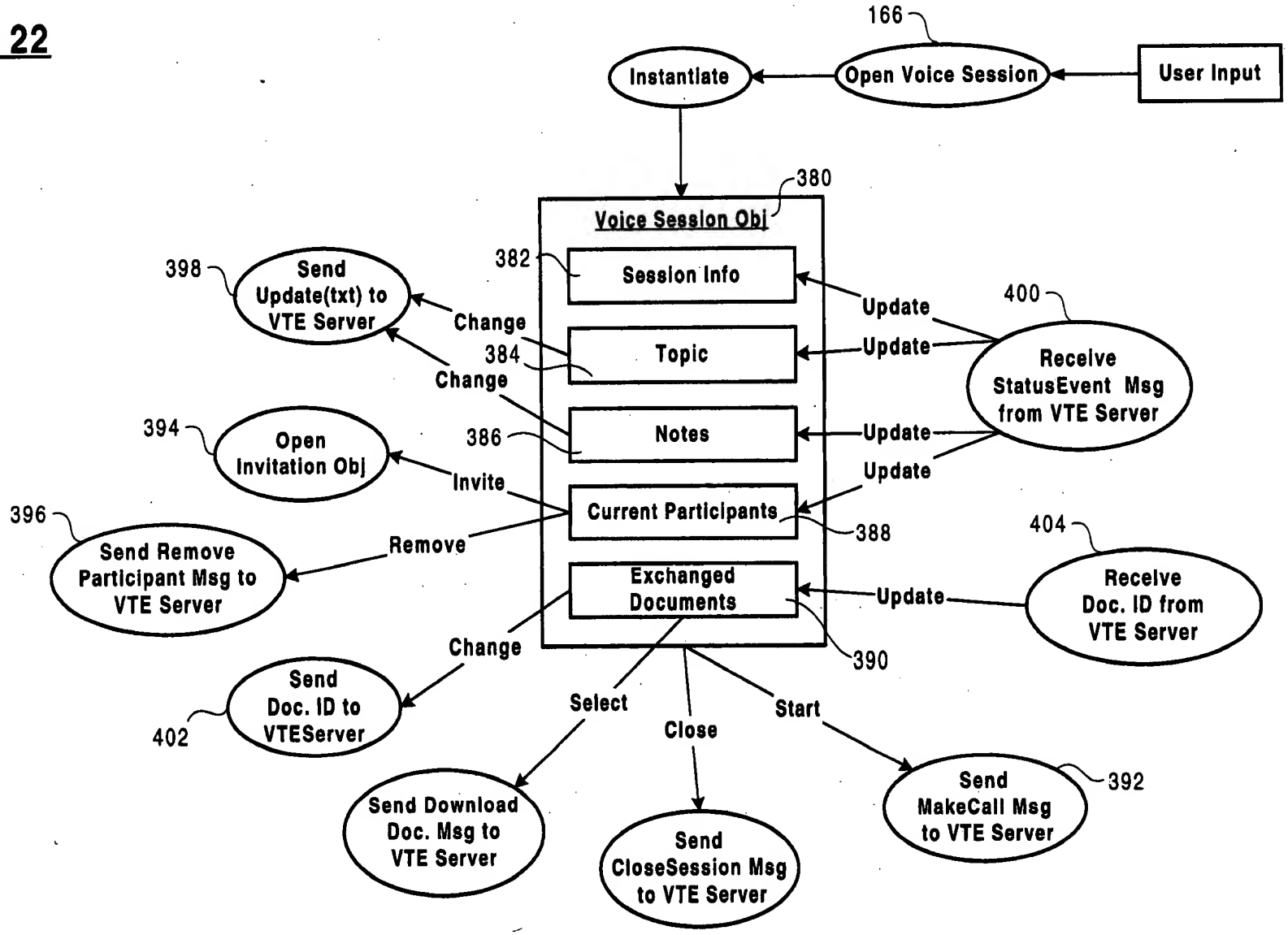
FIG. 22



3087EP 2628260

FIG. 23

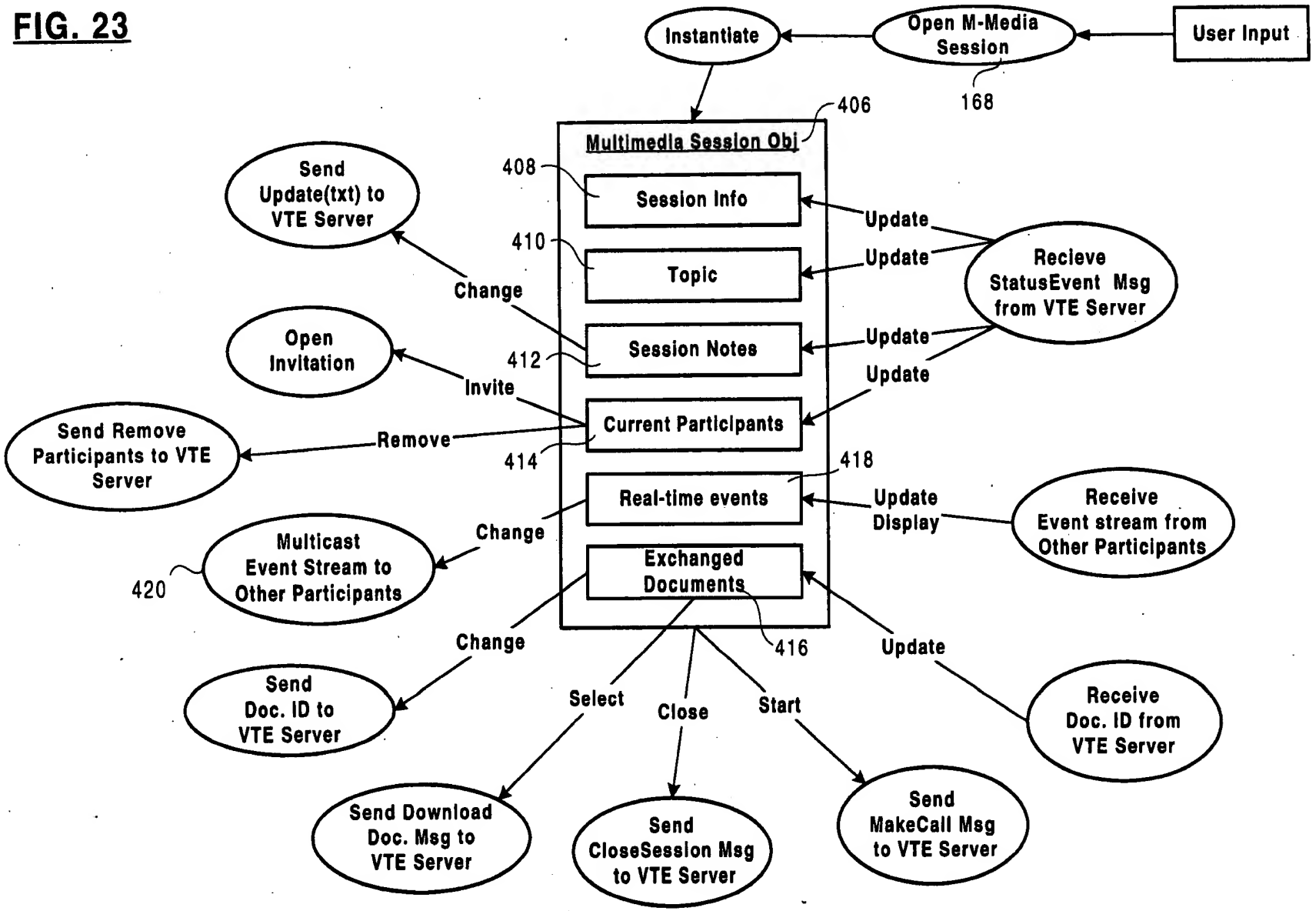


FIG. 24

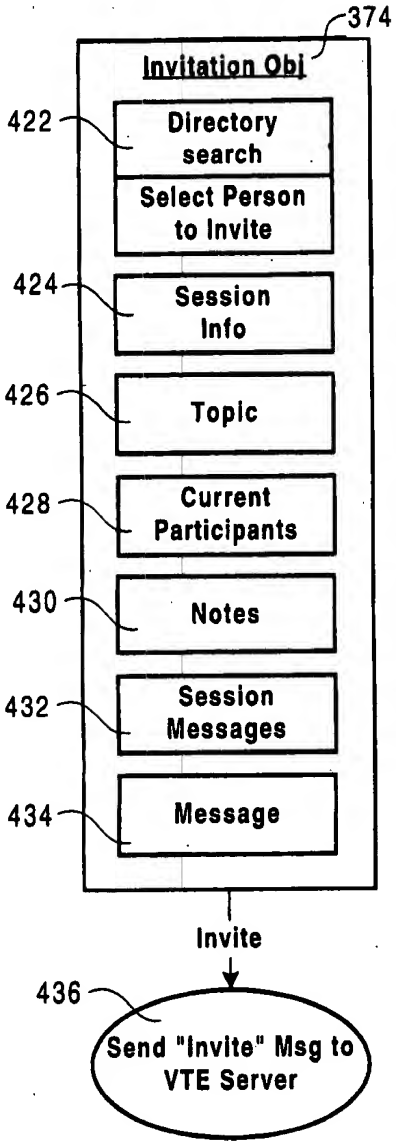

374
Invitation Obj
422
Directory search
Select Person to Invite
424
Session Info
426
Topic
428
Current Participants
430
Notes
432
Session Messages
434
Message
Invite
436
Send "Invite" Msg to VTE Server

FIG. 25

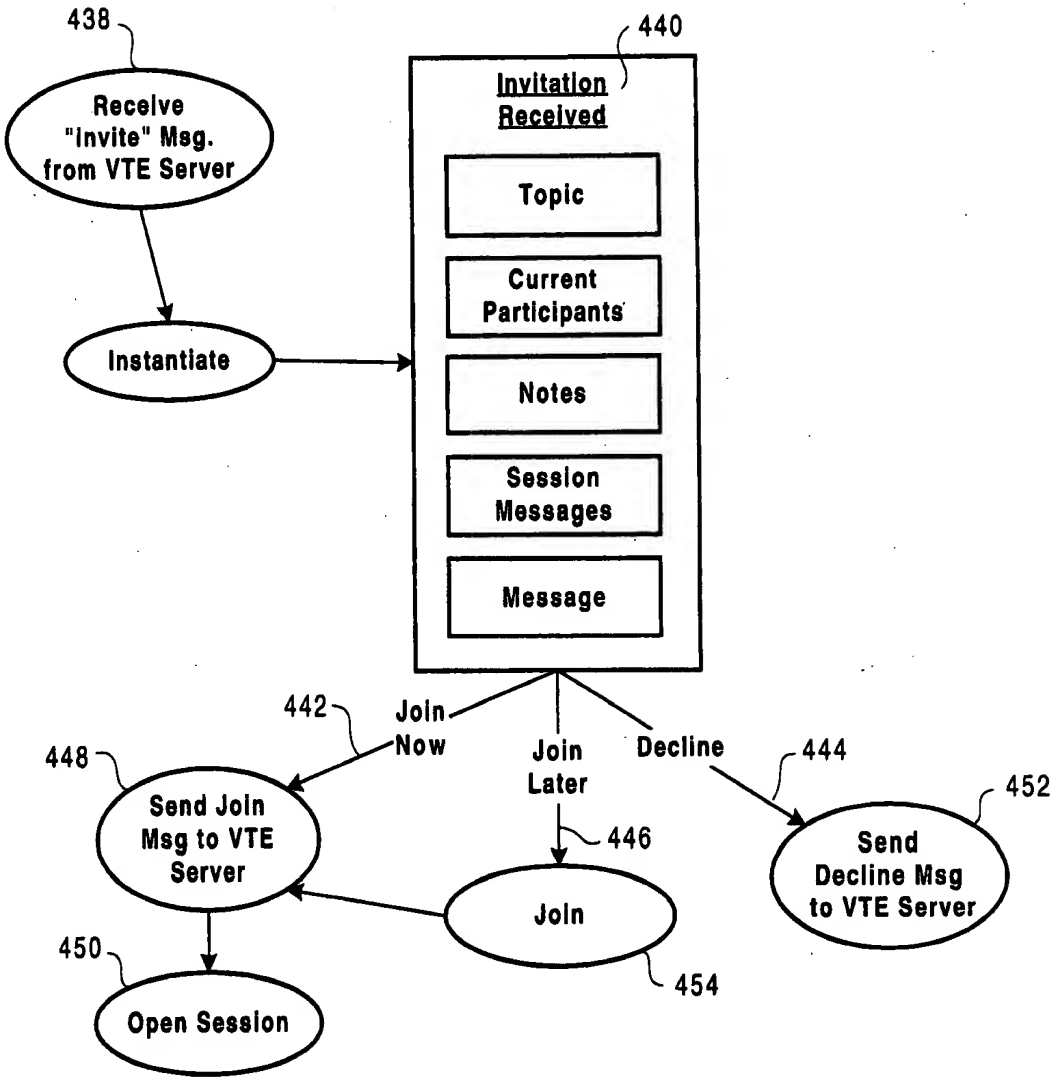

438
Receive "Invite" Msg. from VTE Server
Instantiate
440
Invitation Received
Topic
Current Participants
Notes
Session Messages
Message
442
Join Now
Join Later
Decline
444
448
Send Join Msg to VTE Server
446
Join
452
Send Decline Msg to VTE Server
450
Open Session
454

FIG. 26 Set Up 2-Way Voice Communications Session

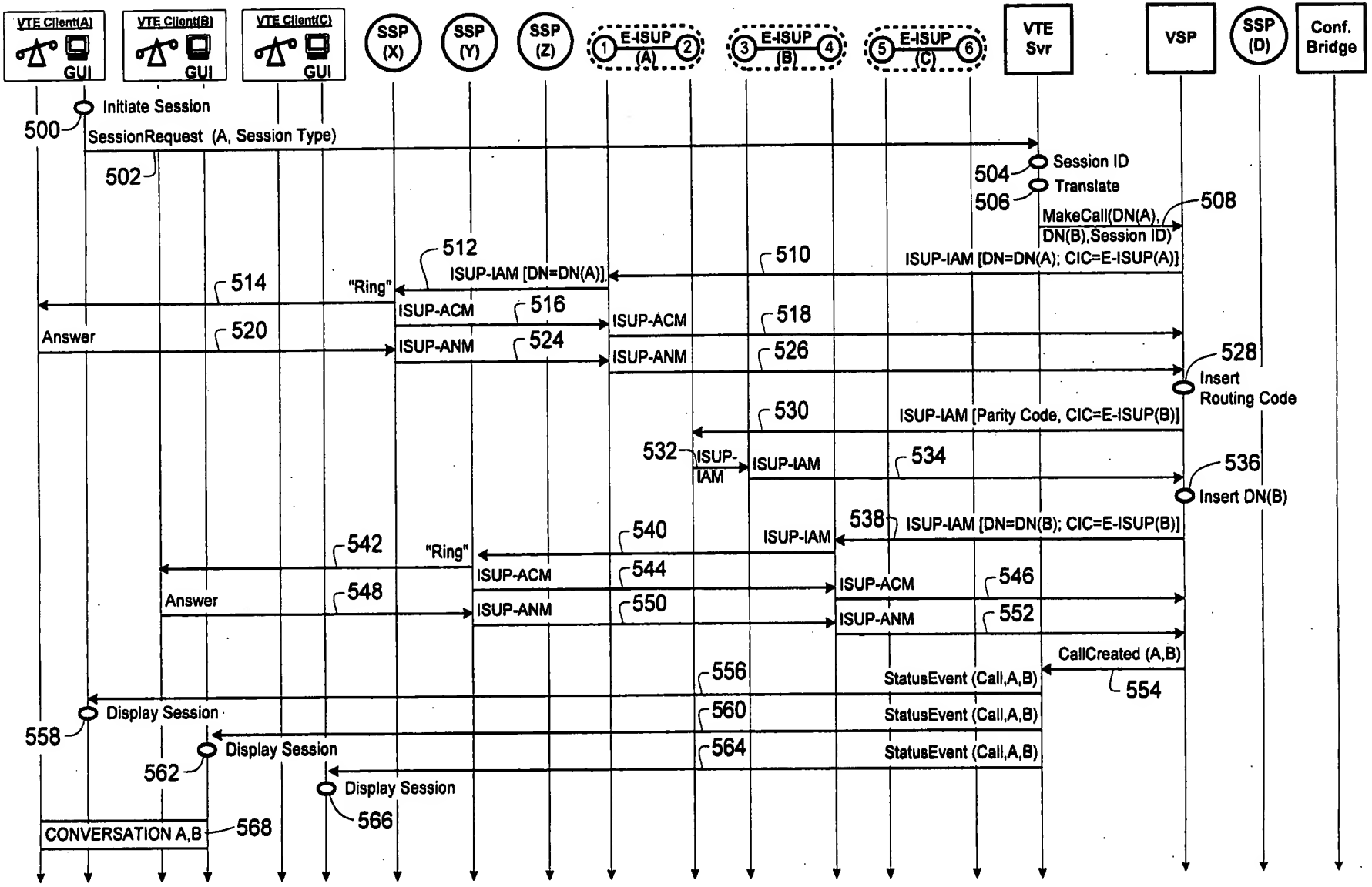


FIG. 27 Close 2-Way Voice Communications Session

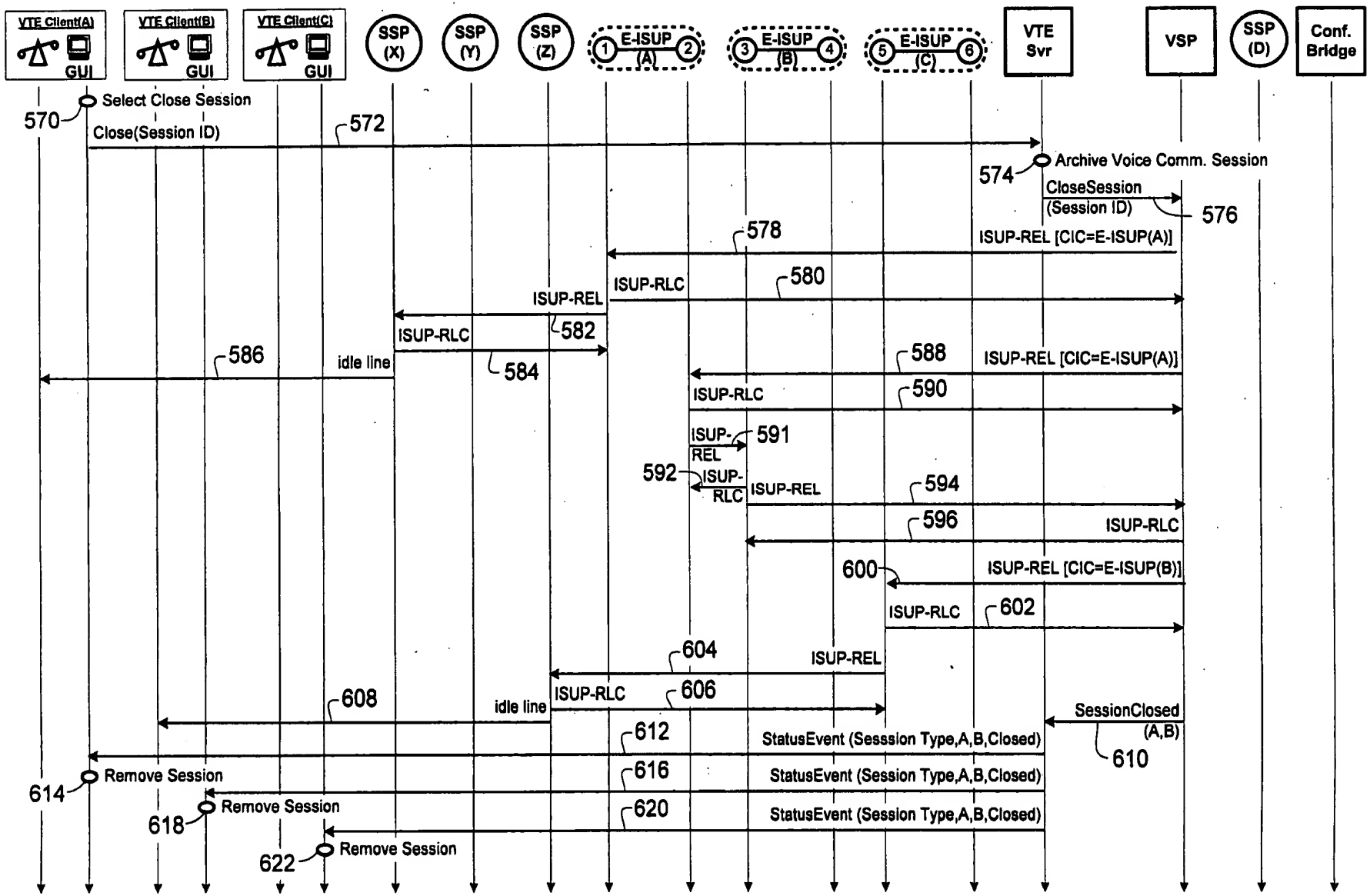


FIG. 28 Add 3rd Party to 2-Way Voice Communications Session - PSTN

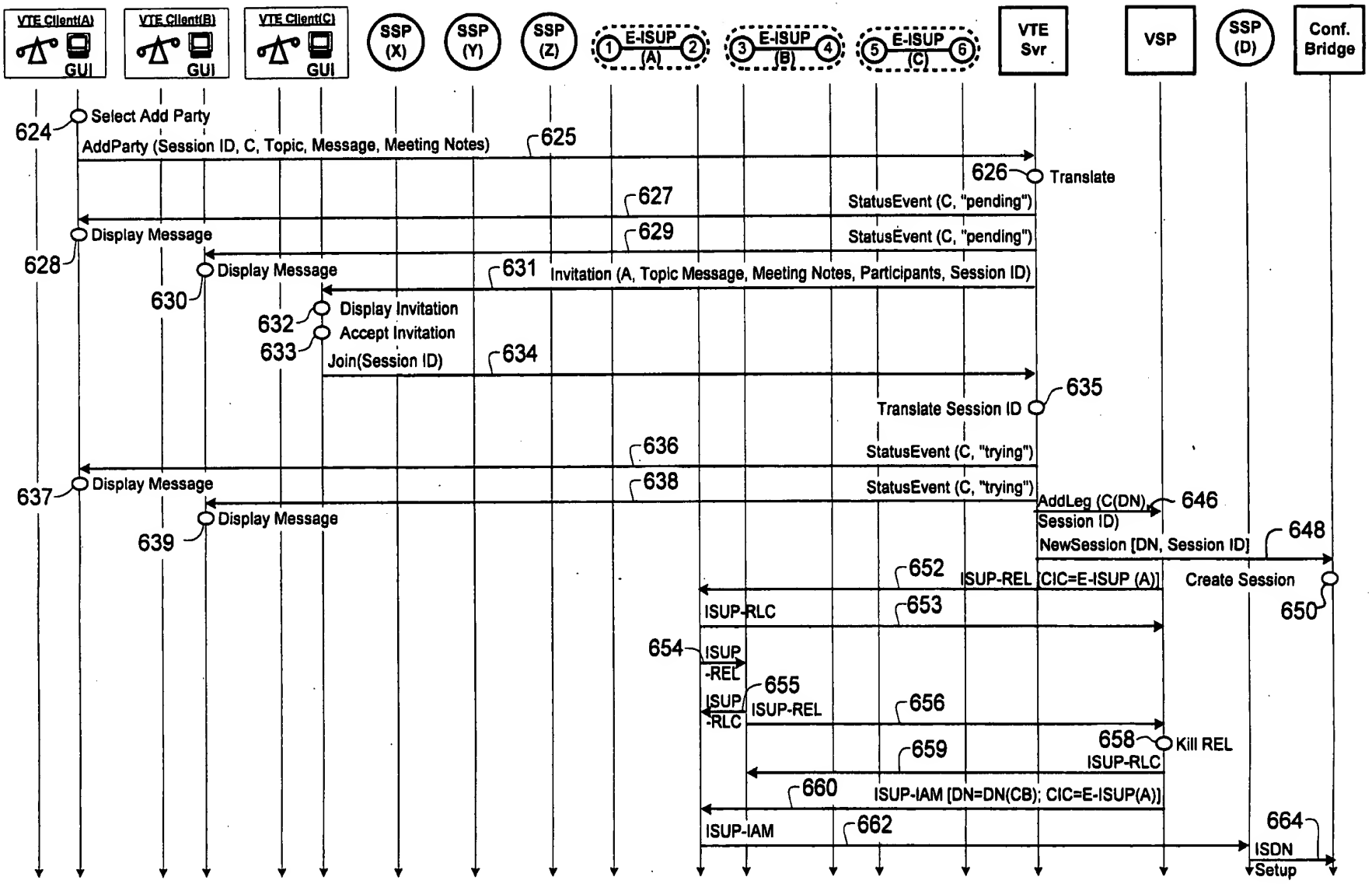


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FIG. 28a Add 3rd Party to 2-Way Voice Communications Session - PSTN (Cont.)

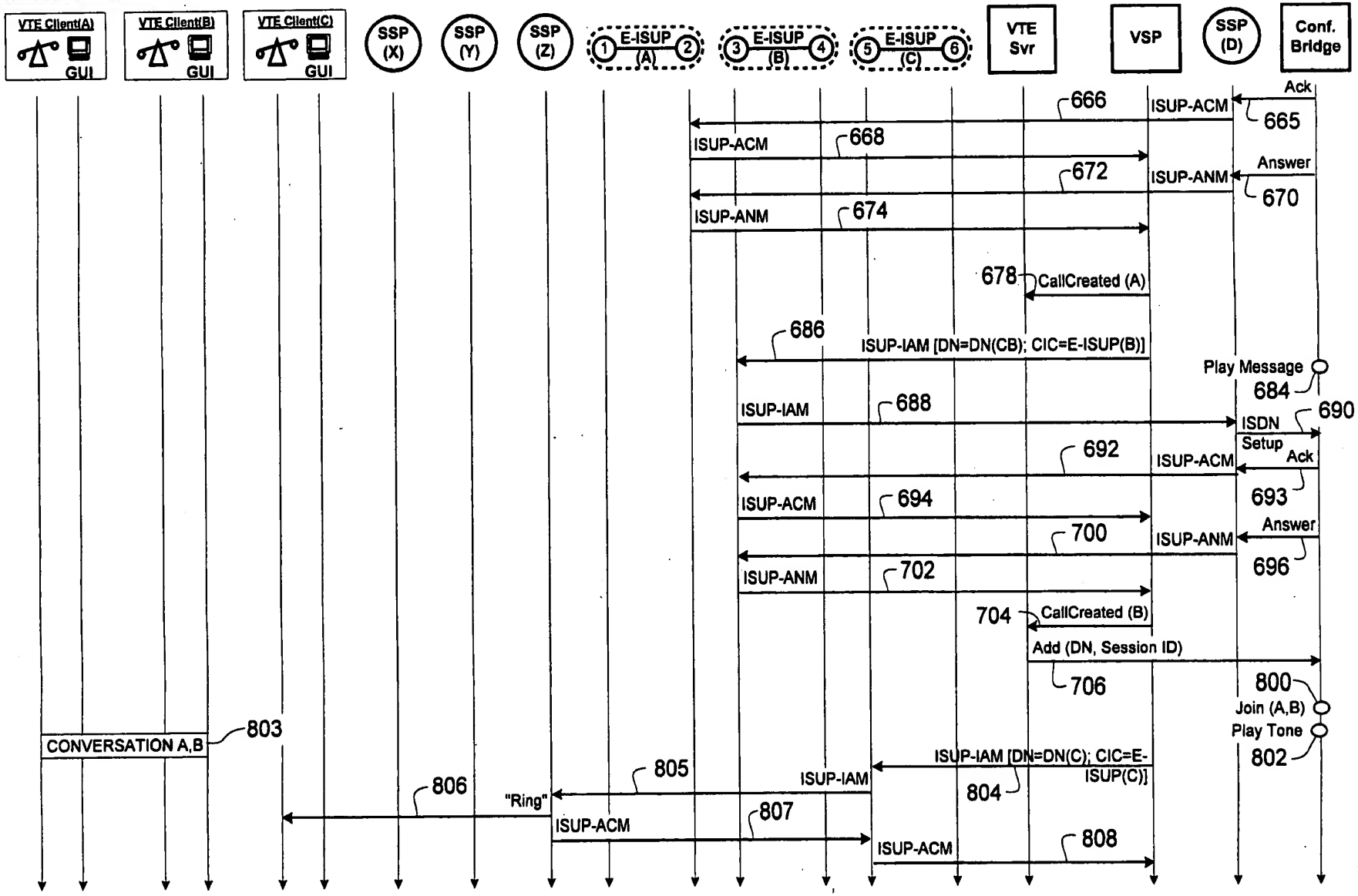

FIG. 28b Add 3rd Party to 2-Way Voice Communications Session - PSTN (Cont.)

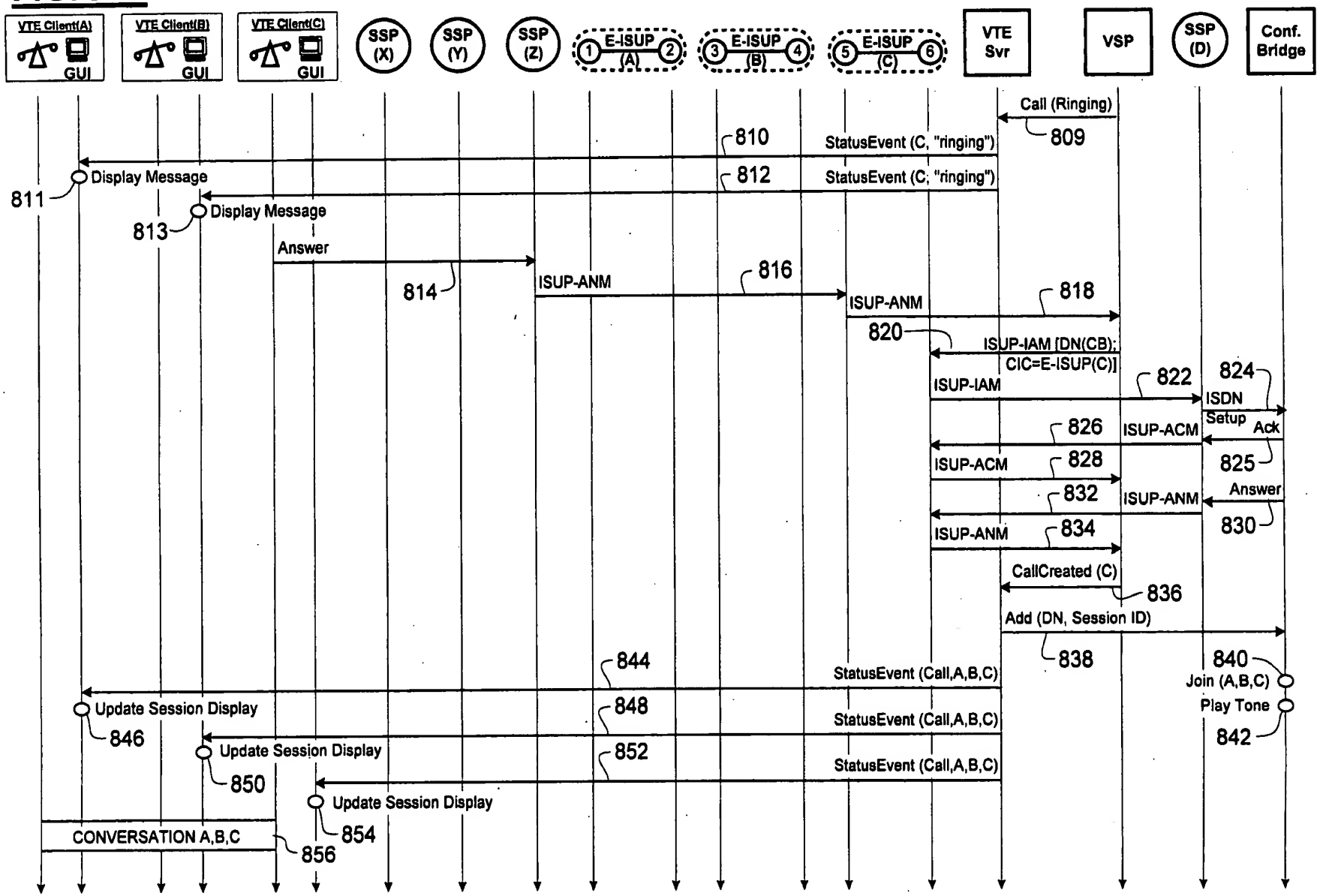

FIG. 29 Close 3-Way Voice Communications Session

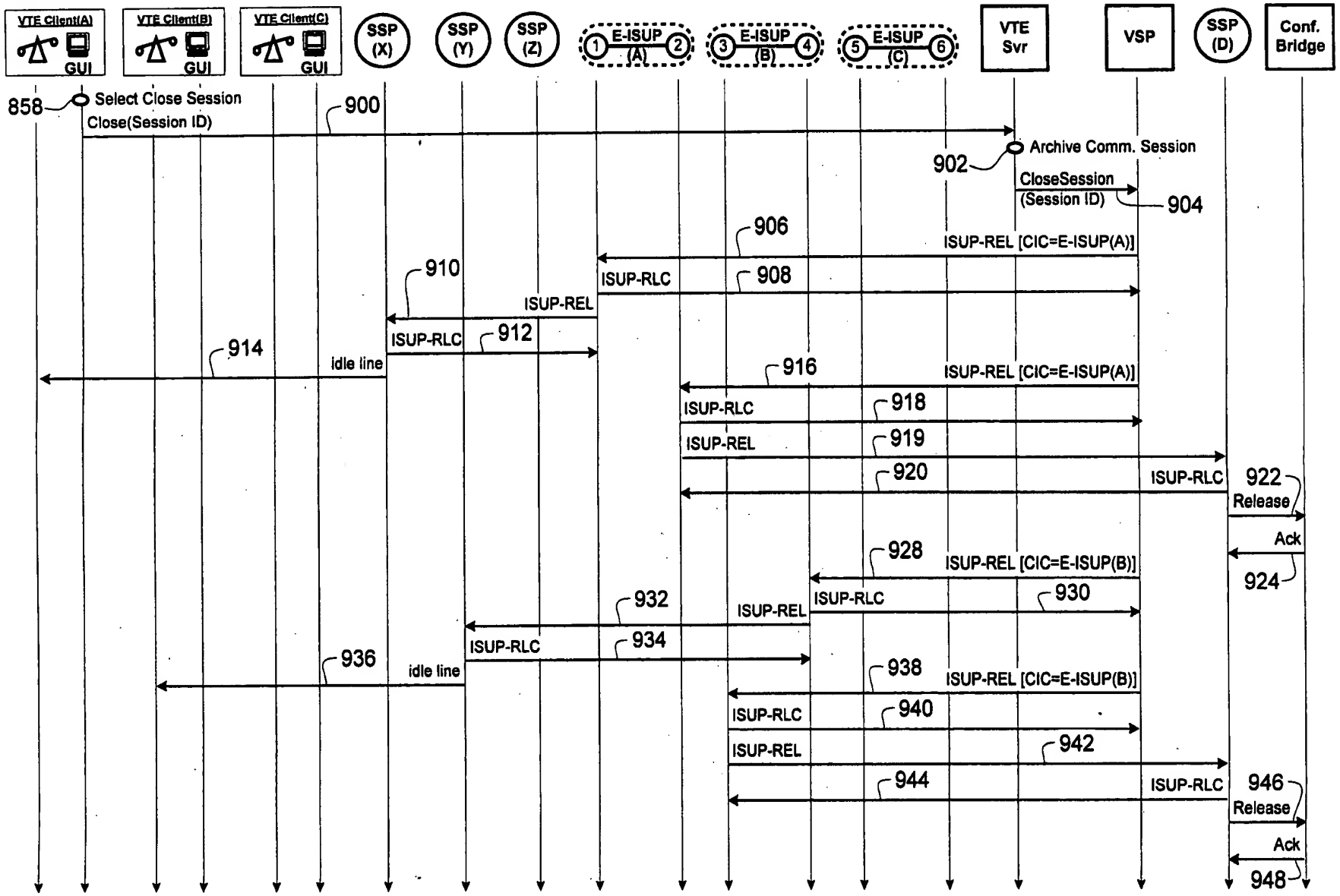

FIG. 29a Close 3-Way Voice Communications Session (Cont.)

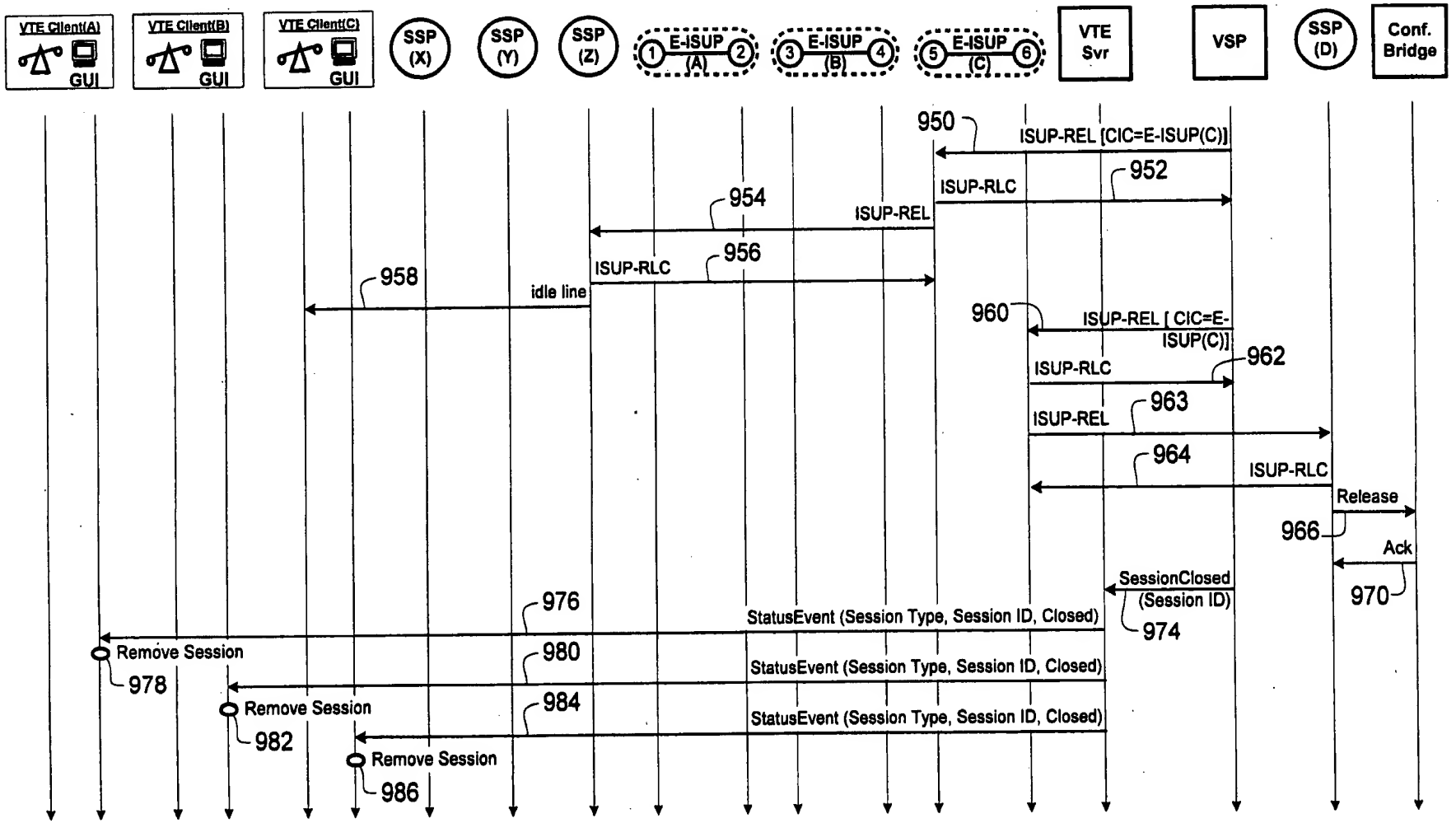

FIG. 30 Set Up 2-Way Voice Communications Session - Enterprise Network

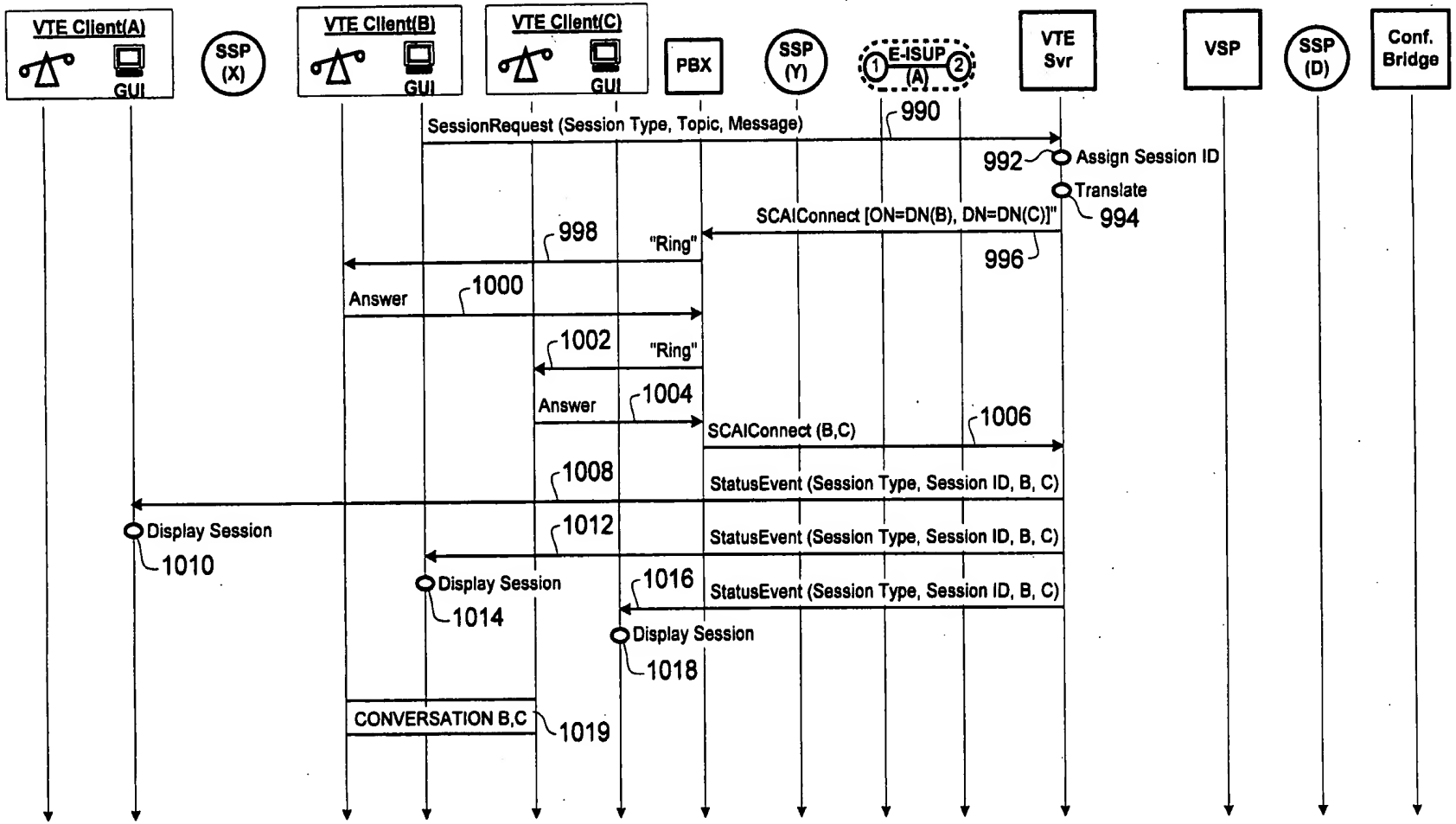

FIG. 31 Add 3rd Party to 2-Way Voice Communications Session - Enterprise Network

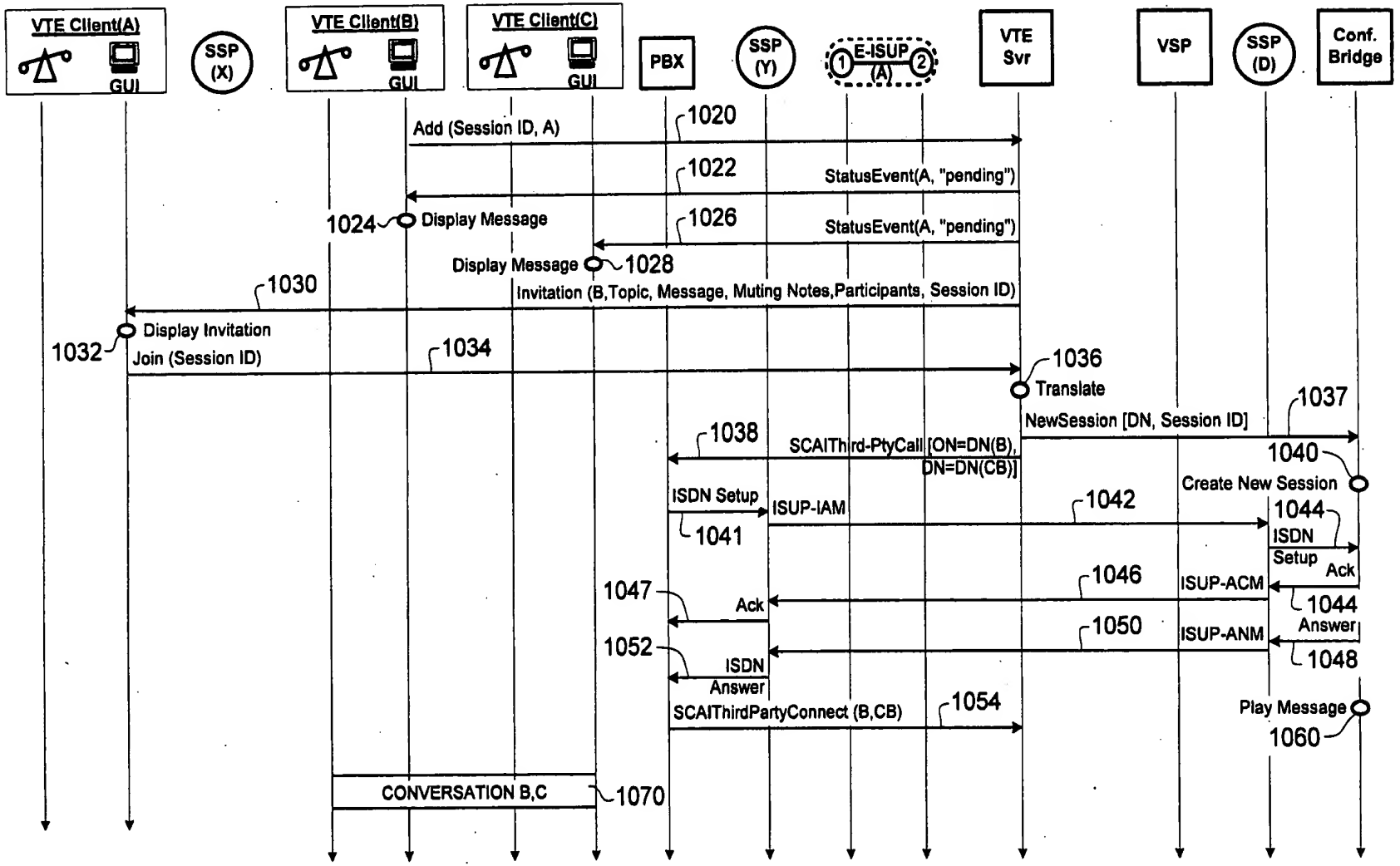

FIG. 31a Add 3rd Party to 2-Way Voice Communications Session - Enterprise Network (Cont.)

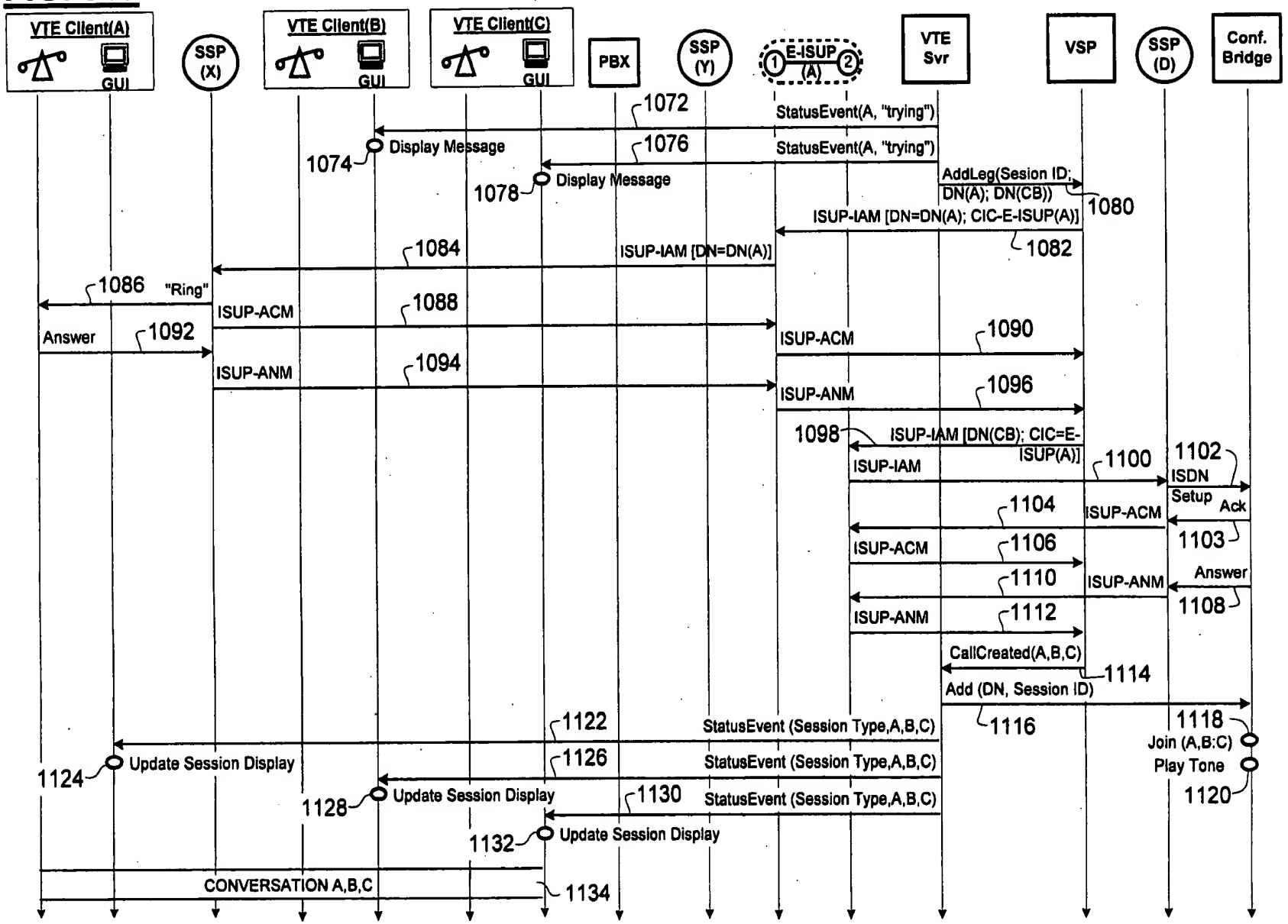

FIG. 32 Convert 3-Way IM Session to 3-Way Voice Communications Session

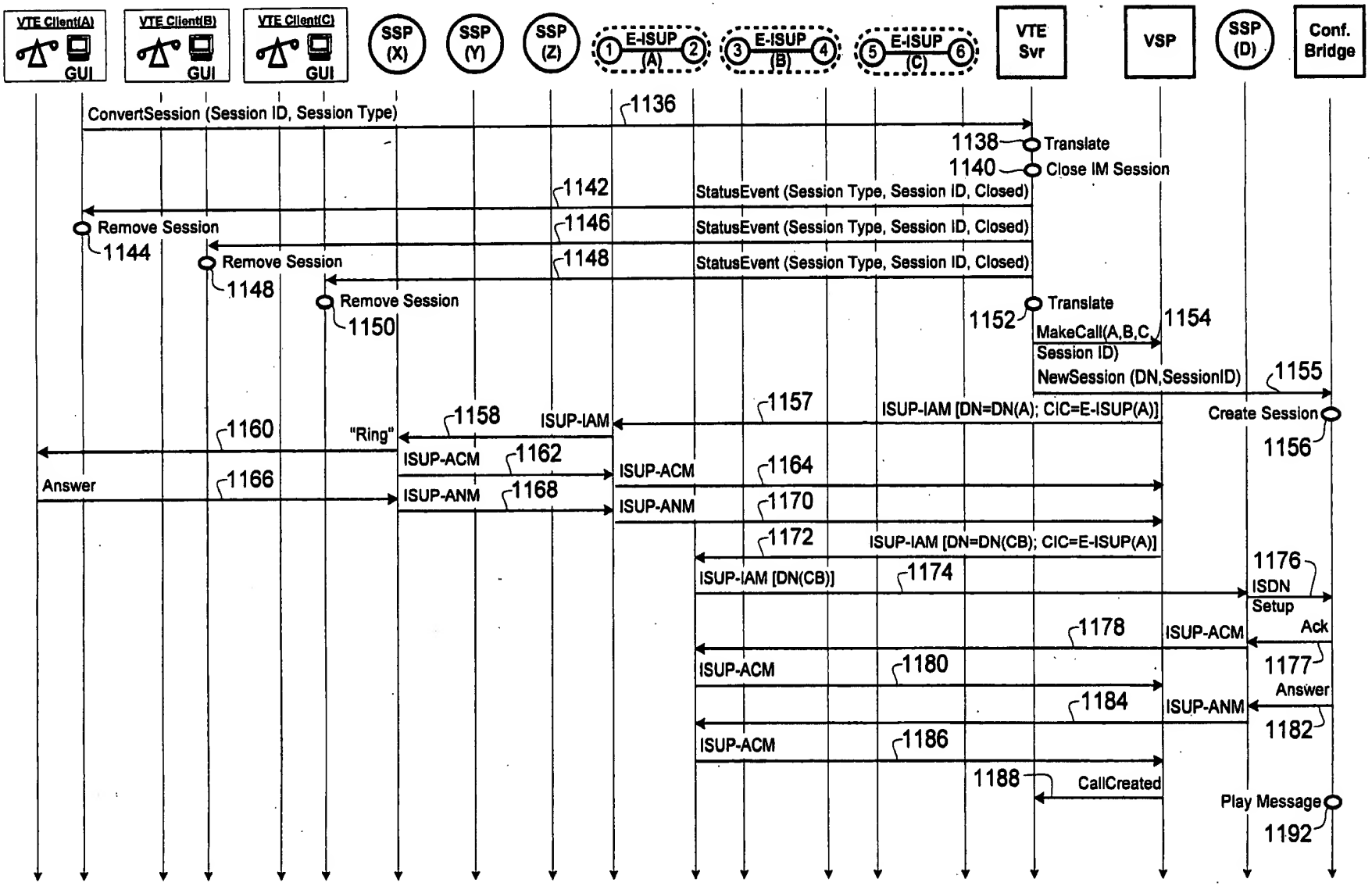

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FIG. 32a Convert 3-Way IM Session to 3-Way Voice Communications Session (Cont.)

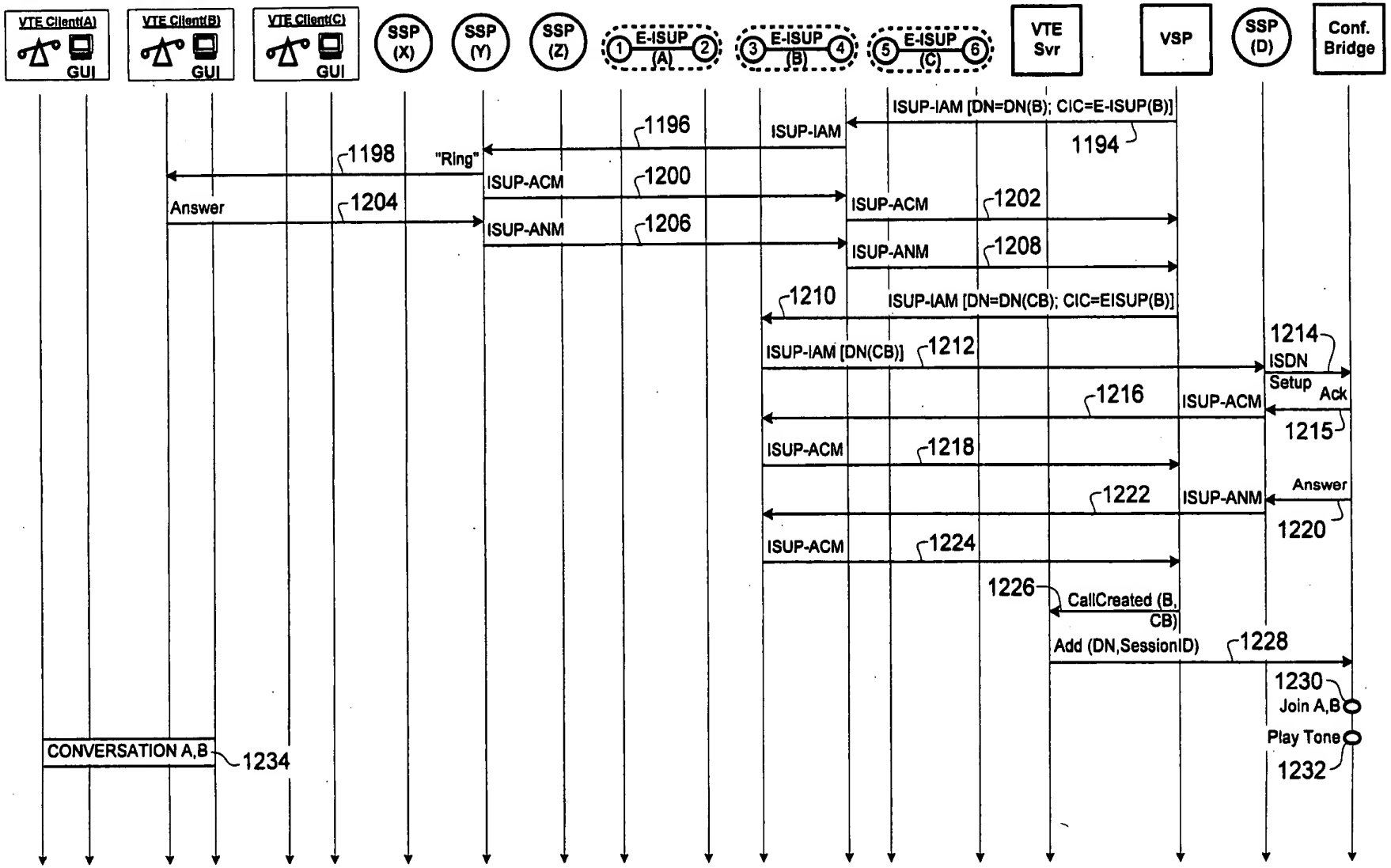

FIG. 32b Convert 3-Way IM Session to 3-Way Voice Communications Session (Cont.)

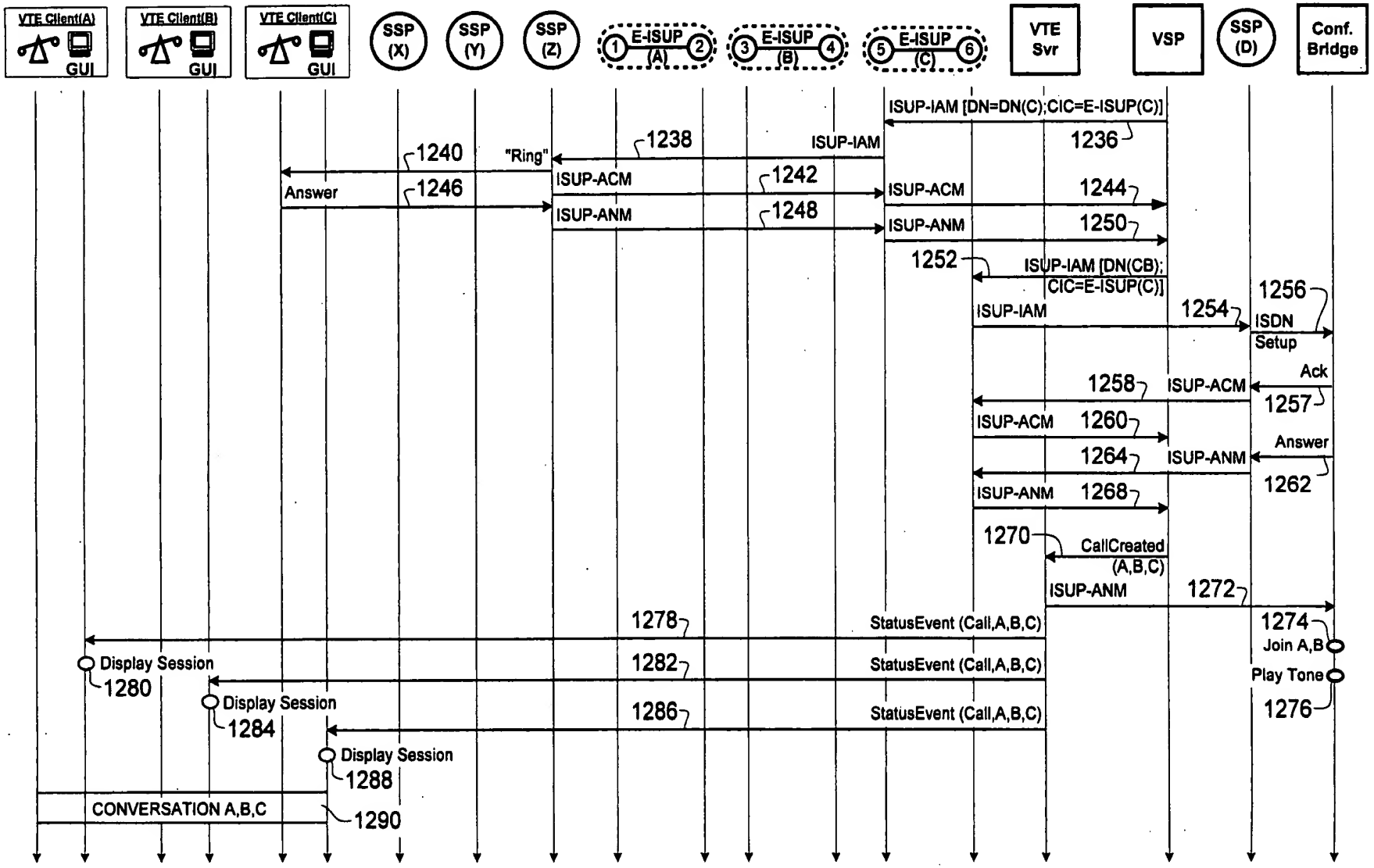

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FIG. 33 Set-up 2-way Multi-Media Session

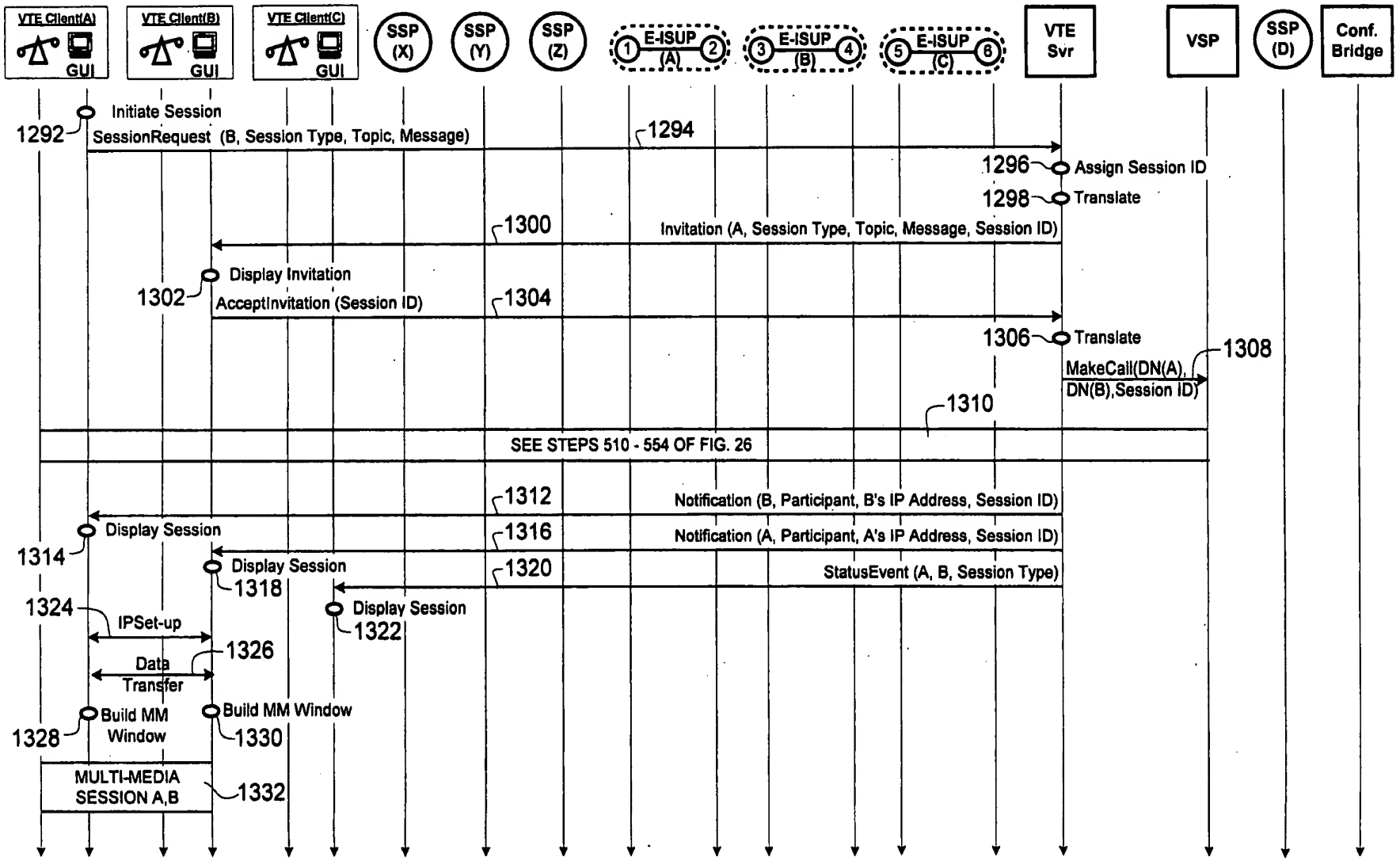

FIG. 34 Add 3rd Party to Multi-media Session

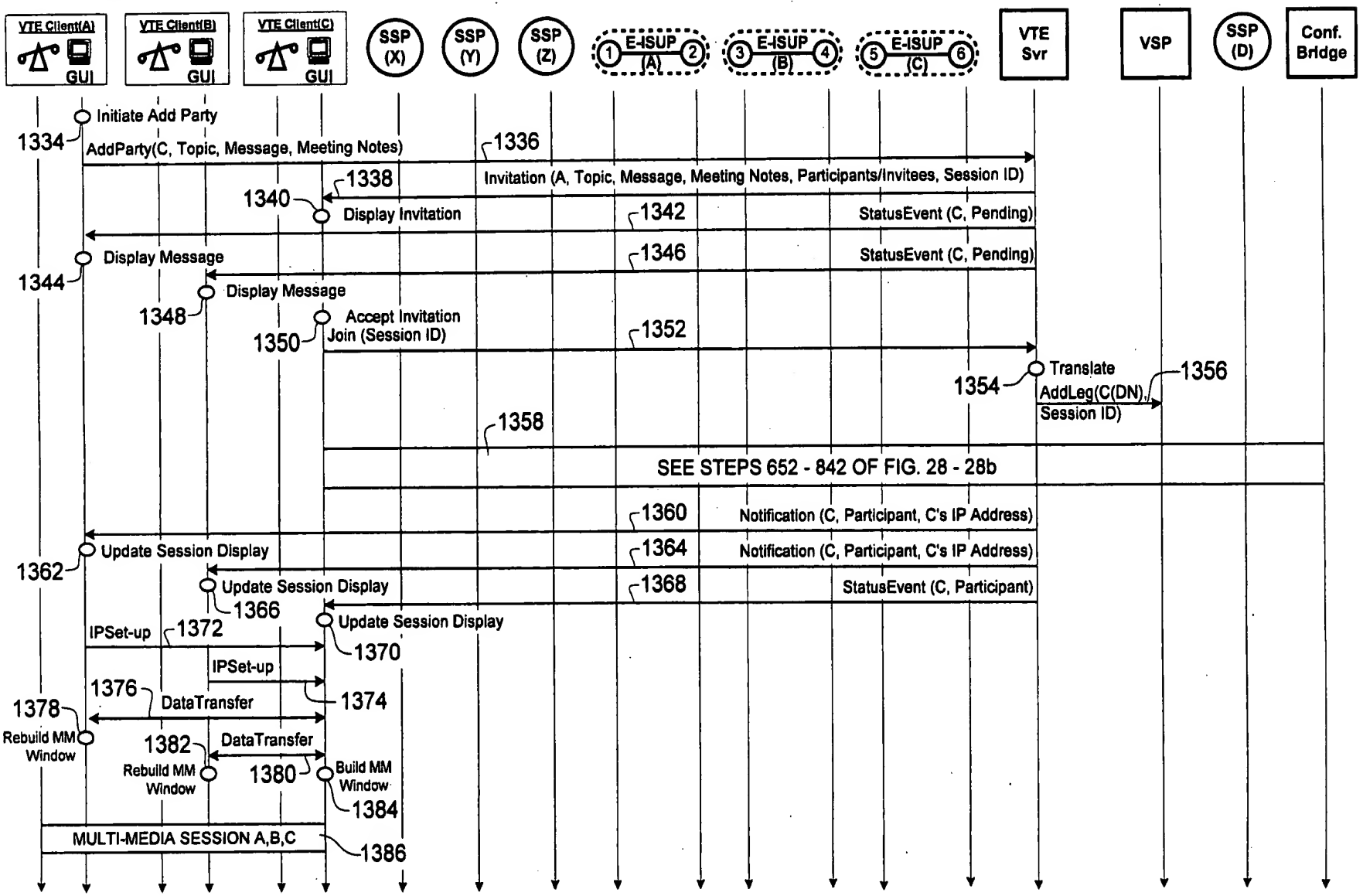

FIG. 35 Add 3rd Party to Multi-media Session (Deferred Acceptance)

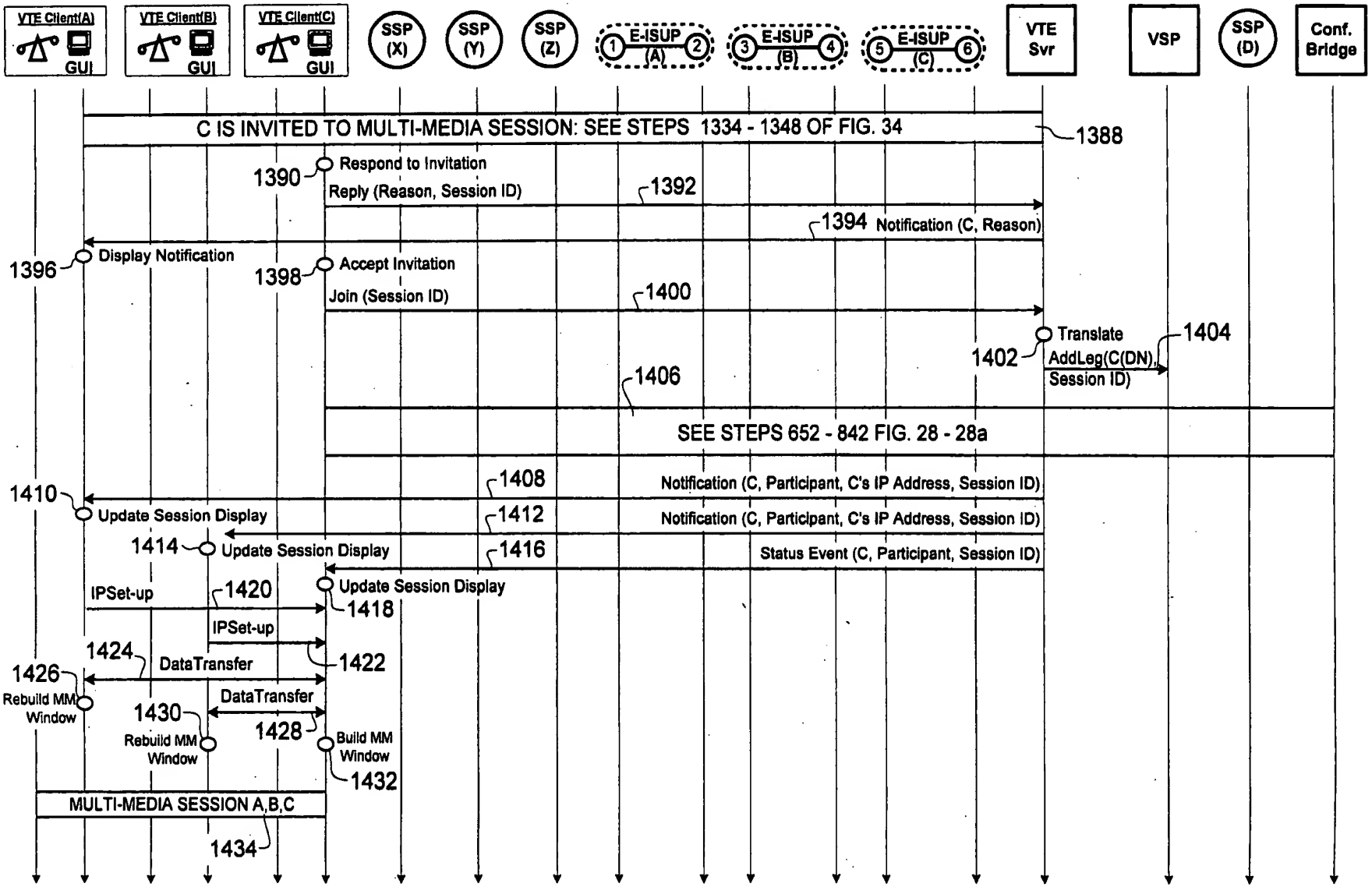

FIG. 36 Add 3rd Party to Multi-media Session (3rd Party Not Logged to VTE)

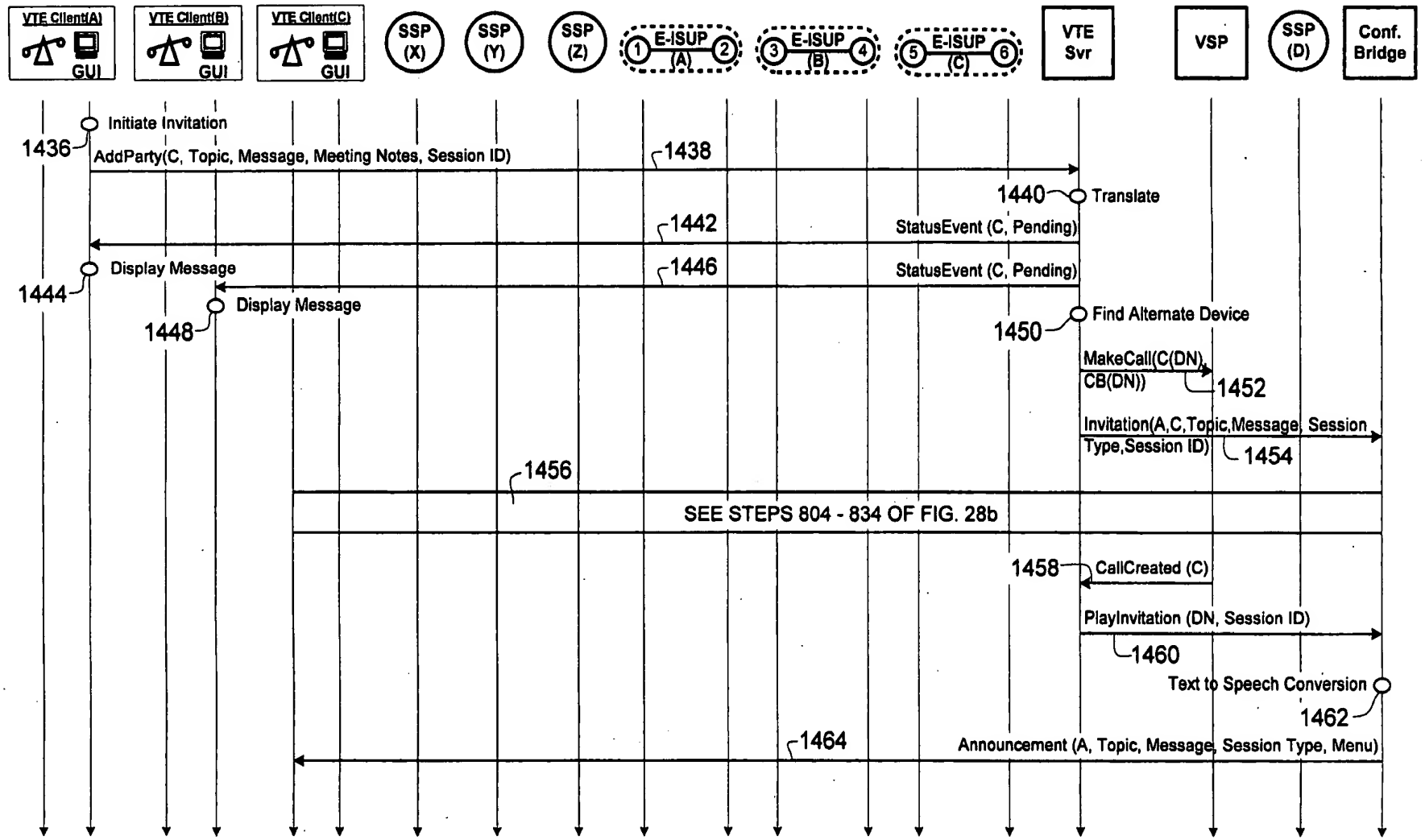
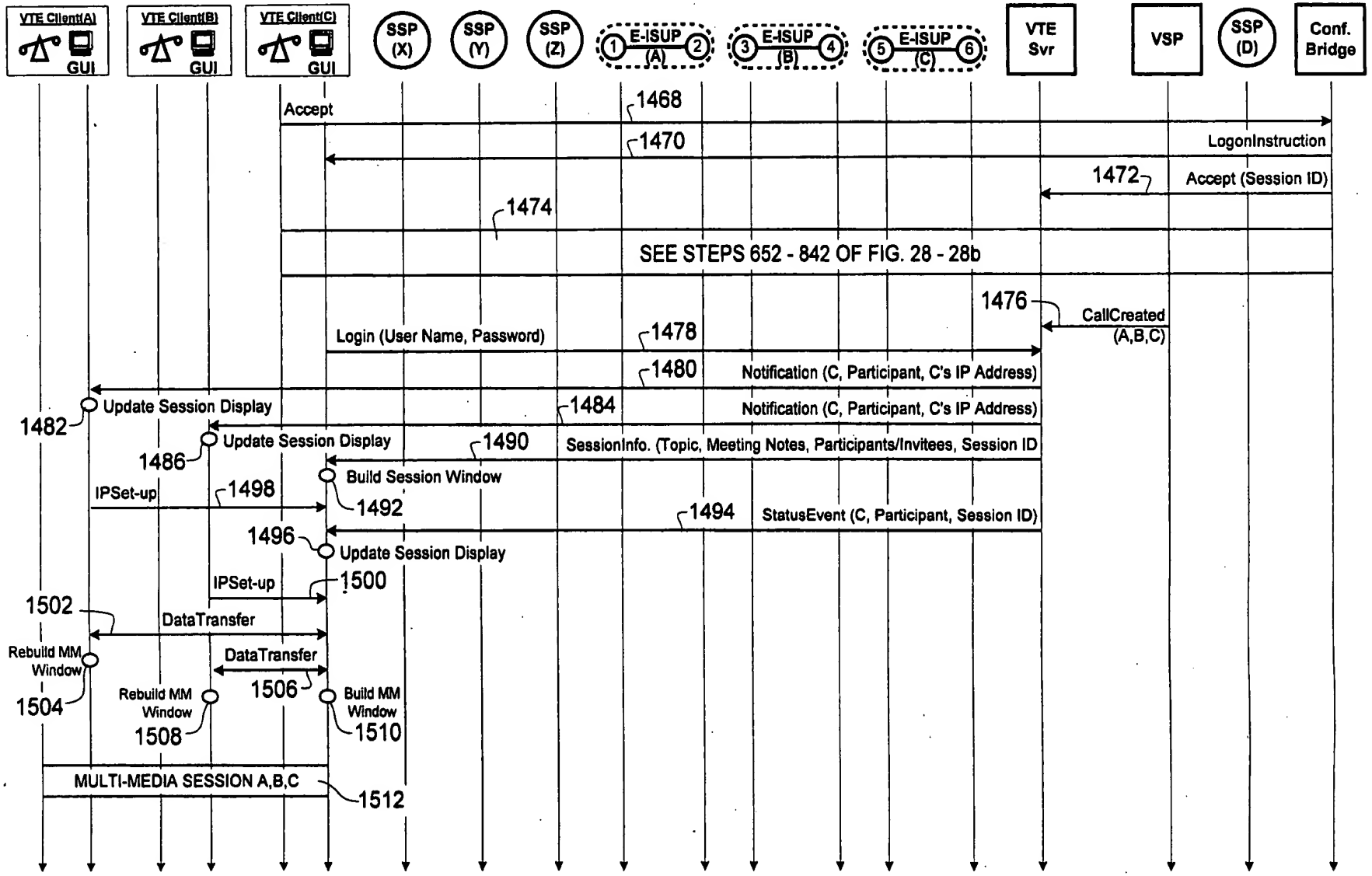
FIG. 36a Add 3rd Party to Multi-media Session (3rd Party Not Logged on to VTE) (Cont.)